ALPINE®

EN

CT

MP3/WMA/AAC CD Receiver

CDA-105E

MP3 · Plays Windows Media™ · AAC · COMPACT disc DIGITAL AUDIO TEXT

Made for iPod · Works with iPhone · IMPRINT · USB PLAYBACK

- OWNER'S MANUAL
  Please read before using this equipment.
- 用戶手冊
  請在使用本設備之前先閱讀用戶手冊。

ALPINE ELECTRONICS MARKETING, INC.
1-1-8 Nishi Gotanda,
Shinagawa-ku,
Tokyo 141-0031, Japan
Phone 03-5496-8231

ALPINE ELECTRONICS OF AMERICA, INC.
19145 Gramercy Place, Torrance,
California 90501, U.S.A.
Phone 1-800-ALPINE-1 (1-800-257-4631)

ALPINE ELECTRONICS OF CANADA, INC.
777 Supertest Road, Toronto,
Ontario M3J 2M9, Canada
Phone 1-800-ALPINE-1 (1-800-257-4631)

ALPINE ELECTRONICS OF AUSTRALIA PTY. LTD.
161-165 Princes Highway, Hallam
Victoria 3803, Australia
Phone 03-8787-1200

ALPINE ELECTRONICS GmbH
Frankfurter Ring 117, 80807 München, Germany
Phone 089-32 42 640

ALPINE ELECTRONICS OF U.K. LTD.
Alpine House
Fletchamstead Highway, Coventry CV4 9TW, U.K.
Phone 0870-33 33 763

ALPINE ELECTRONICS FRANCE S.A.R.L.
(RCS PONTOISE B 338 101 280)
98, Rue de la Belle Etoile, Z.I. Paris Nord Il,
B.P. 50016, 95945 Roissy Charles de Gaulle
Cedex, France
Phone 01-48638989

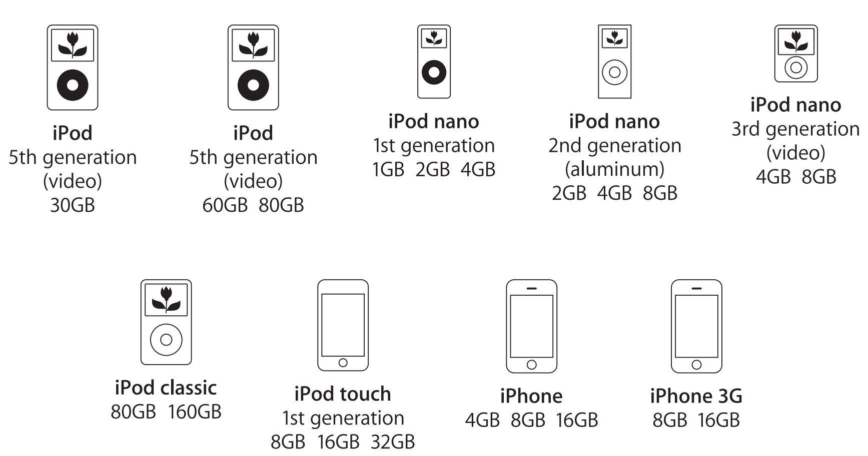
ALPINE ITALIA S.p.A.
Viale C. Colombo 8, 20090 Trezzano
Sul Naviglio (MI), Italy
Phone 02-484781

ALPINE ELECTRONICS DE ESPAÑA, S.A.
Portal de Gamarra 36, Pabellón, 32
01013 Vitoria (Alava)-APDO 133, Spain
Phone 945-283588

ALPINE ELECTRONICS (BENELUX) GmbH
Leuvensesteenweg 510-B6,
1930 Zaventem, Belgium
Phone 02-725-13 15

YAMAGATA (Wuxi) Co., Ltd.
Block 28-25, Changjiang Nanlu, WND, jiangsu, China

Designed by ALPINE Japan
Printed in China (Y)
68-09359Z81-A


iPod
5th generation
(video)
30GB
iPod
5th generation
(video)
60GB 80GB
iPod nano
1st generation
1GB 2GB 4GB
iPod nano
2nd generation
(aluminum)
2GB 4GB 8GB
iPod nano
3rd generation
(video)
4GB 8GB
iPod classic
80GB 160GB
iPod touch
1st generation
8GB 16GB 32GB
iPhone
4GB 8GB 16GB
iPhone 3G
8GB 16GB

ENGLISH

Contents

Operating Instructions

Operating Instructions

WARNING

⚠WARNING

This symbol means important instructions. Failure to heed them can result in serious injury or death.

DO NOT OPERATE ANY FUNCTION THAT TAKES YOUR ATTENTION AWAY FROM SAFELY DRIVING YOUR VEHICLE.

Any function that requires your prolonged attention should only be performed after coming to a complete stop. Always stop the vehicle in a safe location before performing these functions. Failure to do so may result in an accident.

KEEP THE VOLUME AT A LEVEL WHERE YOU CAN STILL HEAR OUTSIDE NOISES WHILE DRIVING.

Excessive volume levels that obscure sounds such as emergency vehicle sirens or road warning signals (train crossings, etc.) can be dangerous and may result in an accident. LISTENING AT LOUD VOLUME LEVELS IN A CAR MAY ALSO CAUSE HEARING DAMAGE.

MINIMIZE DISPLAY VIEWING WHILE DRIVING.

Viewing the display may distract the driver from looking ahead of the vehicle and cause an accident.

DO NOT DISASSEMBLE OR ALTER.

Doing so may result in an accident, fire or electric shock.

USE ONLY IN CARS WITH A 12 VOLT NEGATIVE GROUND.

(Check with your dealer if you are not sure.) Failure to do so may result in fire, etc.

KEEP SMALL OBJECTS SUCH AS BATTERIES OUT OF THE REACH OF CHILDREN.

Swallowing them may result in serious injury. If swallowed, consult a physician immediately.

USE THE CORRECT AMPERE RATING WHEN REPLACING FUSES.

Failure to do so may result in fire or electric shock.

DO NOT BLOCK VENTS OR RADIATOR PANELS.

Doing so may cause heat to build up inside and may result in fire.

USE THIS PRODUCT FOR MOBILE 12V APPLICATIONS.

Use for other than its designed application may result in fire, electric shock or other injury.

DO NOT PLACE HANDS, FINGERS OR FOREIGN OBJECTS IN INSERTION SLOTS OR GAPS.

Doing so may result in personal injury or damage to the product.

⚠CAUTION

This symbol means important instructions. Failure to heed them can result in injury or material property damage.

HALT USE IMMEDIATELY IF A PROBLEM APPEARS.

Failure to do so may cause personal injury or damage to the product. Return it to your authorized Alpine dealer or the nearest Alpine Service Centre for repairing.

⚠PRECAUTIONS

Product Cleaning

Use a soft dry cloth for periodic cleaning of the product. For more severe stains, please dampen the cloth with water only. Anything else has the chance of dissolving the paint or damaging the plastic.

Temperature

Be sure the temperature inside the vehicle is between +60°C (+140°F) and –10°C (+14°F) before turning your unit on.

Moisture Condensation

You may notice the CD playback sound wavering due to condensation. If this happens, remove the disc from the player and wait about an hour for the moisture to evaporate.

Damaged Disc

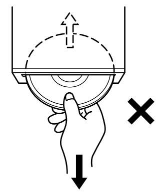
Do not attempt to play cracked, warped, or damaged discs. Playing a bad disc could severely damage the playback mechanism.

Maintenance

If you have problems, do not attempt to repair the unit yourself. Return it to your Alpine dealer or the nearest Alpine Service Station for servicing.

Never Attempt the Following

Do not grip or pull out the disc while it is being pulled back into the player by the automatic reloading mechanism.
Do not attempt to insert a disc into the unit when the unit power is off.

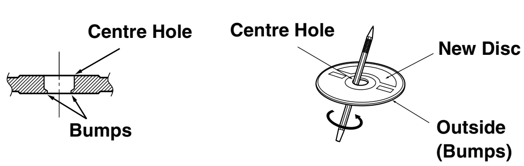


Inserting Discs

Your player accepts only one disc at a time for playback. Do not attempt to load more than one disc.
Make sure the label side is facing up when you insert the disc. “ERROR” will be displayed on your player if you insert a disc incorrectly. If “ERROR” continues to be displayed even though the disc has been inserted correctly, push the RESET switch with a pointed object such as a ballpoint pen.
Playing a disc while driving on a very bumpy road may result in skips, but this will not scratch the disc or damage the player.

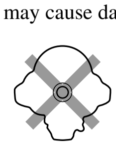
New Discs

To prevent the CD from jamming, “ERROR” is displayed if discs with irregular surfaces are inserted or if discs are inserted incorrectly. When a new disc is ejected immediately after initial loading, use your finger to feel around the inside of the centre hole and outside edge of the disc. If you feel any small bumps or irregularities, this could inhibit proper loading of the disc. To remove the bumps, rub the inside edge of the hole and outside edge of the disc with a ballpoint pen or other such instrument, then insert the disc again.



Irregular Shaped Discs

Be sure to use round shape discs only for this unit and never use any special shape discs.
Use of special shape discs may cause damage to the mechanism.



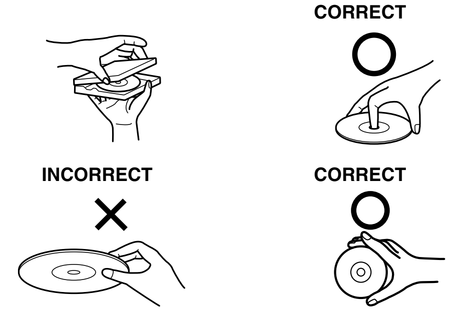
Installation Location

Make sure this unit will not be installed in a location subjected to:

- Direct sun and heat
- High humidity and water
- Excessive dust
- Excessive vibrations

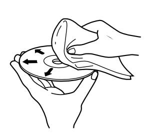
Correct Handling

Do not drop the disc while handling. Hold the disc so you will not leave fingerprints on the surface. Do not affix tape, paper, or gummed labels to the disc. Do not write on the disc.



Disc Cleaning

Fingerprints, dust, or soil on the surface of the disc could cause the CD player to skip. For routine cleaning, wipe the playing surface with a clean, soft cloth from the centre of the disc to the outer edge. If the surface is heavily soiled, dampen a clean, soft cloth in a solution of mild neutral detergent before cleaning the disc.



Disc Accessories

There are various accessories available on the market for protecting the disc surface and improving sound quality. However, most of them will influence the thickness and/or diameter of the disc. Using such accessories can cause the disc to be out of standard specifications and may create operational problems. We recommend not using these accessories on discs played in Alpine CD players.



On handling Compact Discs (CD/CD-R/CD-RW)

- Do not touch the surface.
- Do not expose the disc to direct sunlight.
- Do not affix stickers or labels.
- Clean the disc when it is dusty.
- Make sure that there are no bumps around the disc.
- Do not use commercially available disc accessories.

Do not leave the disc in the car or the unit for a long time. Never expose the disc to direct sunlight. Heat and humidity may damage the CD and you may not be able to play it again.

To customers using CD-R/CD-RW

- If a CD-R/CD-RW cannot be played back, make sure the last recording session was closed (finalized).
- Finalize the CD-R/CD-RW if necessary, and attempt playback again.

About media that can be played

Use only compact discs with the label side showing the CD logo marks below.

If you use unspecified compact discs, correct performance cannot be guaranteed.
You can play CD-Rs (CD-Recordables)/CD-RWs (CD-ReWritables) which have been recorded only on audio devices. You can also play CD-Rs/CD-RWs containing MP3/WMA/AAC formatted audio files.

- Some of the following CDs may not play on this unit:
  Flawed CDs, CDs with fingerprints, CDs exposed to extreme temperatures or sunlight (e.g., left in the car or this unit), CDs recorded under unstable conditions, CDs on which a recording failed or a re-recording was attempted, copy-protected CDs which do not conform to the audio CD industry standard.
- Use discs with MP3/WMA/AAC files written in a format compatible with this unit. For details, see pages 10-11.
- ROM data other than audio files contained in a disc will not produce sound when played back.

Protecting the USB connector

- Only a USB memory iPhone/iPod can be connected to the USB connector on this unit. Correct performance using other USB products cannot be guaranteed.
- If the USB connector is used, be sure to connect it to the unit by using a USB extension cable (sold separately). A USB hub is not supported.
- Depending on the connected USB memory device, the unit may not function or some functions may not be performed.
- The audio file format that can be played back on the unit is MP3/WMA/AAC.
- Artist/song name, etc., can be displayed, however characters may not be correctly displayed.

⚠CAUTION

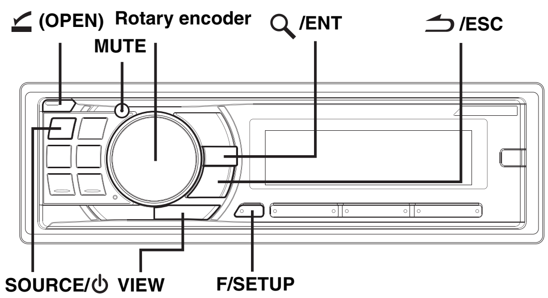
Alpine accepts no responsibility for lost data, etc., even if data, etc., is lost while using this product.

On Handling USB Memory

- To prevent malfunction or damage, note the following points.
  Read the USB memory Owner's Manual thoroughly.
  Do not touch the terminals by hand or metal.
  Do not subject USB memory to excessive shock.
  Do not bend, drop, disassemble, modify or soak in the water.
- Avoid usage or storage in the following locations:
  Anywhere in the car exposed to direct sunlight or high temperatures.
  Anywhere the possibility of high humidity or corrosive substances are present.
- Fix the USB memory in a location where driver operation will not be hindered.
- USB memory may not function correctly at high or low temperature.
- Use only certified USB memory. Note that even certified USB memory, may not function correctly depending on its type or state.
- USB memory function is not guaranteed. Use USB memory according to the terms of agreement.
- Depending on the settings of the USB memory type, memory state or encoding software, the unit may not play back or display properly.
- A file that is copy-protected (copyright protection) cannot be played back.
- USB memory may take time to start playback. If there is a particular file other than audio in the USB memory, it may take considerable time before the file is played back or searched.
- The unit can play back "mp3", "wma" or "m4a" file extensions.
- Do not add the above extensions to a file other than audio data. This non-audio data will not be recognized. The resulting playback may contain noise that can damage speakers and/or amplifiers.
- It is recommended to back up important data on a personal computer.
- Do not remove the USB device while playback is in progress. Change SOURCE to something other than USB, then remove the USB device to prevent possible damage to its memory.

- *Windows Media and the Windows logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries.*
- *iPod is a trademark of Apple Inc., registered in the U.S. and other countries.*
- *iPhone is a trademark of Apple Inc.*
- *"Made for iPod" means that an electronic accessory has been designed to connect specifically to iPod and has been certified by the developer to meet Apple performance standards.*
- *"Works with iPhone" means that an electronic accessory has been designed to connect specifically to iPhone and has been certified by the developer to meet Apple performance standards.*
- *Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.*
- *The Bluetooth word mark and logos are owned by the Bluetooth SIG, Inc. and any use of such marks by Alpine Electronics, Inc. is under license. Other trademarks and trade names are those of their respective owners.*
- ***"MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson."***
- ***"Supply of this product only conveys a license for private, non-commercial use and does not convey a license nor imply any right to use this product in any commercial (i.e. revenue-generation) real time broadcasting (terrestrial, satellite, cable and/or any other media), broadcasting/streaming via internet, intranets and/or other networks or in other electronic content distribution systems, such as pay-audio or audio-on-demand applications. An independent license for such use is required. For details, please visit http://www.mp3licensing.com"***
- ***Audyssey MultEQ XT is a registered trademark of Audyssey laboratories Inc.***

Getting Started



Accessory List

- **Head unit 1**
- **Power cable 1**
- **Mounting sleeve...1**
- **Carrying case 1**
- **Bracket key..2**
- **Screw (M5 × 8)...4**
- **Owner's Manual .... 1 set**

Turning Power On and Off

Press SOURCE/⏻ to turn on the unit.

- *The unit can be turned on by pressing any other button except VIEW.*

Press and hold SOURCE/⏻ for at least 2 seconds to turn off the unit.

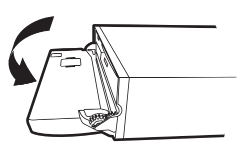
- *The first time power is turned on, the volume will start from level 12.*

Detaching and Attaching the Front Panel

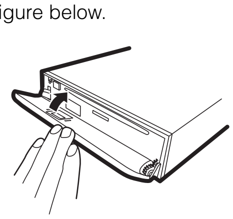
Detaching

1 **Turn off the unit power.**

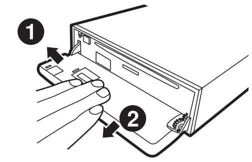
2 **Press (OPEN) to open the front panel.**



To close the front panel, press the left side until it locks as shown in the figure below.



3 **Grasp the front panel firmly, slide to the left ❶, and then pull ❷ to remove.**

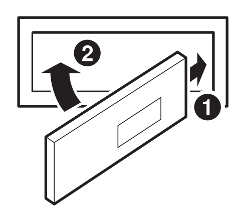


- *The front panel may become hot in normal usage (especially the connector terminals on the back of the front panel). This is not a malfunction.*
- *To protect the front panel, place it in the supplied carrying case.*
- *When detaching the front panel, do not apply excessive force as it may result in malfunction.*
- *Do not leave the front panel open, or drive the car with the panel open as it may result in an accident or malfunction.*

Attaching

1 **Insert the right side of the front panel into the main unit. Align the groove on the front panel with the projections on the main unit.**

2 **Push the left side of the front panel until it locks firmly into the main unit.**



- *Before attaching the front panel, make sure that there is no dirt or dust on the connector terminals and no foreign object between the front panel and the main unit.*
- *Attach the front panel carefully, holding the sides of the front panel to avoid pushing buttons by mistake.*

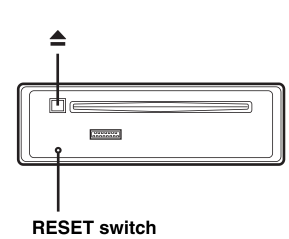
Initial System Start-Up

Be sure to press the RESET switch when using the unit for the first time, after changing the car battery, etc.

1 **Turn off the unit power.**

2 **Press (OPEN) to open the front panel, and then remove it.**

3 **Press RESET with a ballpoint pen or similar pointed object.**



Adjusting Volume

Turn the Rotary encoder until the desired sound is obtained.

Lowering Volume Quickly

Activating the Audio Mute function will instantly lower the volume level by 20 dB.

Press MUTE to activate the MUTE mode.
The audio level will decrease by about 20 dB.

Pressing MUTE again will bring the audio back to its previous level.

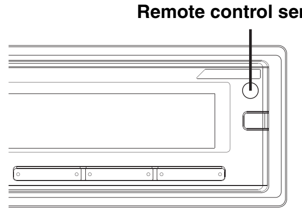
Setting the Time

1. **Press and hold F/SETUP for at least 2 seconds to activate the SETUP selection mode.**
2. **Turn the Rotary encoder to select CLOCK ADJUST, and then press 🔍/ENT.**
3. **Turn the Rotary encoder to set hour.**
4. **Press 🔍/ENT.**
5. **Repeat steps 3 and 4 above to set minute.**
6. **Press and hold F/SETUP for at least 2 seconds to return to normal mode.**

- *Pressing ⮌/ESC returns to the previous SETUP mode.*
- *If no operation is performed for 60 seconds, SETUP is cancelled.*
- *To synchronize the clock to another clock/watch or radio time announcement, press and hold 🔍/ENT for at least 2 seconds after setting the "hour." Minutes will reset to 00. If the display shows over "30" minutes when you do this, the time will advance one hour.*

Controllable with Remote Control

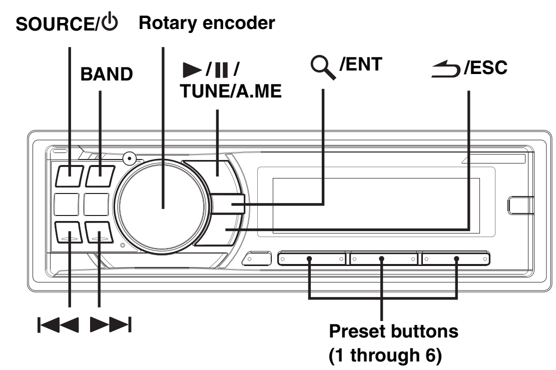
This unit can be controlled with an optional Alpine remote control. For details, consult your Alpine dealer.
Point the optional remote control transmitter at the remote control sensor.



Connectable to Remote Control Interface Box

This unit may be controlled from the vehicle's audio controls. An optional Alpine Remote Control Interface Box must be used. For details, contact your Alpine dealer.

Radio



Listening to Radio

1. **Press SOURCE/⏻ to select TUNER mode.**
2. **Press BAND repeatedly until the desired radio band is displayed.**

   F1 (FM1) → F2 (FM2) → AM → F1 (FM1)
3. **Press TUNE/A.ME to select the tuning mode.**

   DX SEEK (Distance mode) → SEEK (Local mode) → OFF (Manual mode) → DX SEEK (Distance mode)

- *The initial mode is Distance mode.*

Distance mode:
Both strong and weak stations will be automatically tuned in (Automatic Seek Tuning).

Local mode:
Only strong stations will be automatically tuned in (Automatic Seek Tuning).

Manual mode:
The frequency is manually tuned in steps (Manual tuning).

4. **Press ⏮ or ⏭ to tune in the desired station.**
   Holding down ⏮ or ⏭ will change the frequency continuously.

Presetting Stations Manually

1 **Select the radio band and tune in a desired radio station you wish to store in the preset memory.**

2 **Press and hold, for at least 2 seconds, any one of the preset buttons (1 through 6) into which you wish to store the station.**
The selected station is stored.
The display shows the band, preset number and station frequency memorized.

- *A total of 18 stations can be stored in the preset memory (6 stations for each band; FM1, FM2 and AM).*
- *If you store a station in a preset memory which already has a station, the current station will be cleared and replaced with the new station.*

Presetting Stations Automatically

1 **Press BAND repeatedly until the desired radio band is displayed.**

2 **Press and hold TUNE/A.ME for at least 2 seconds.**
The frequency on the display continues to change while the automatic memory is in progress. The tuner will automatically seek and store 6 strong stations in the selected band. They will be stored into preset buttons 1 to 6 in order of signal strength.
When the automatic memory has been completed, the tuner goes to the station stored in preset location No.1.

- *If no stations are stored, the tuner will return to the original station you were listening to before the auto memory procedure began.*

Tuning to Preset Stations

1 **Press BAND repeatedly until the desired band is displayed.**

2 **Press any one of the station preset buttons (1 through 6) that has your desired radio station in memory.**
The display shows the band, preset number and frequency of the station selected.

Frequency Search Function

You can search for a radio station by its frequency.

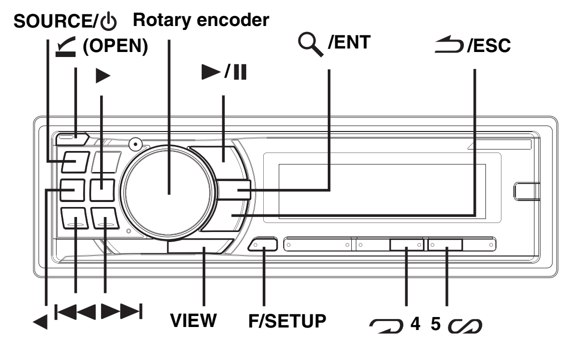
1 **Press and hold 🔍/ENT for at least 2 seconds in Radio mode to activate Frequency search mode.**

2 **Turn the Rotary encoder to select the desired frequency.**

3 **Press 🔍/ENT to receive the selected frequency.**

- *Press ⮌/ESC in the search mode to cancel. Or, the search mode will be cancelled if no operation is performed for 10 seconds.*

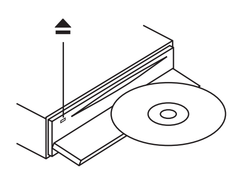
CD/MP3/WMA/AAC



Playback

1 **Press (OPEN).**
The front panel will open.

2 **Insert a disc with the label side facing up.**
The disc will be pulled into the unit automatically.



Close the front panel manually and the "💿" indicator lights up.
When a disc is already inserted, press SOURCE/⏻ to switch to the DISC mode.

TUNER → DISC → USB AUDIO*1/USB iPod*2 → BT AUDIO*3/ AUX+*4 → CHANGER*5 → TUNER

*1 *Displayed only when no iPhone/iPod is connected.*
*2 *Displayed only when the iPhone/iPod is connected.*
*3 *Displayed only when BLUETOOTH IN is set to ADAPTE, refer to "Setting the Bluetooth Connection" (page 16).*
*4 *Displayed only when the AUX+ SETUP is set to ON, refer to "Setting the AUX+ SETUP Mode" (page 17).*
*5 *Only when the CD changer is connected.*

3 **While playing back MP3/WMA/AAC, press ◀ or ▶ to select the desired folder.**
Pressing and holding ◀ or ▶ will change folders continuously.

4 **Press ⏮ or ⏭ to select the desired track (file).**

Returning to the beginning of the current track (file):
Press ⏮.

Fast backward:
Press and hold ⏮.

Advancing to the beginning of the next track (file):
Press ⏭.

Fast forward:
Press and hold ⏭.

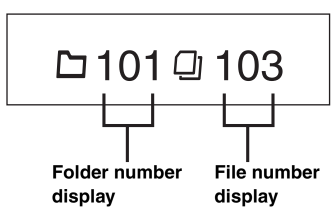
5 To pause playback, press ▶/❚❚.
Pressing ▶/❚❚ again will resume playback.

6 After pressing (OPEN) to open the front panel, press ⏏ to eject the disc.

- *Do not remove a CD during its eject cycle. Do not load more than one disc at a time. A malfunction may result from doing either.*
- *If the CD does not eject, press and hold ⏏ for at least 2 seconds.*
- *The " " indicator lights up when a disc is inserted.*
- *Three-inch (8 cm) CDs cannot be used.*
- *The CD-player can play discs containing audio data, MP3 data, WMA data and AAC data.*
- *"MP3" is displayed during MP3 playback.*
- *"WMA" is displayed during WMA playback.*
- *"AAC" is displayed during AAC playback.*
- *WMA format files that are protected by DRM (Digital Rights Management), AAC format files that have been purchased from iTunes Store and files that are copy-protected (copyright protection) cannot be played back on this unit.*
- *The track display for MP3/WMA/AAC data playback is the file numbers recorded on the disc.*
- *The playback time may not be correctly displayed when a VBR (Variable Bit Rate) recorded file is played back.*

MP3/WMA/AAC Play Display

The folder number and file number will be displayed as described below.



- *Press **VIEW** to switch the display. See "Displaying the Text" (page 14) for information about display switching.*

Repeat Play

Press 4 to play back repeatedly the track being played.
The track (file) will be played repeatedly.

Press 4 again and select off to deactivate repeat play.

CD mode :

↓
: Only a track is repeatedly played back.
↓
*1 : A disc is repeatedly played back.
↓
(off)

*1 *When a CD changer is connected.*

- *If is set to ON during M.I.X. play in CD changer mode, M.I.X. will apply to the current disc only.*

MP3/WMA/AAC mode :

↓
: Only a file is repeatedly played back.
↓
: Only files in a folder are repeatedly played back.
↓
*2 : A disc is repeatedly played back.
↓
(off)

*2 *When an MP3 compatible CD changer is connected.*

- *If a CD changer or an MP3 compatible CD changer is connected: After pressing **F/SETUP** to select the function mode (/), perform the operation within 10 seconds.*

M.I.X. (Random Play)

Press 5 in the play or pause mode.
The tracks (files) on the disc will be played back in random sequence.

To cancel M.I.X. play, press 5 again.

Internal CD mode :

↓
: The tracks are played back in random sequence.
↓
(off)

CD Changer mode :

↓
: The tracks are played back in random sequence.
↓
*3 : The tracks on all the CDs in the current magazine will be included in the random playback sequence.
↓
(off)

*3 *When a CD changer equipped with the ALL M.I.X. function is connected.*

- *If is set to ON during (REPEAT ALL) play in CD changer mode, M.I.X. will apply to the current disc only.*

MP3/WMA/AAC mode :

↓
: Only files in a folder are played back in random sequence.
↓
*4 : Files are played back in random sequence. If an MP3 compatible CD changer is connected, all files in a disc are played back in random sequence, and playback shifts to the next disc.
↓
(off)

*4 *In the USB mode, all files stored in the USB memory are played back in random sequence, and the " " indicator lights up.*

- *When a song is played back during Random (M.I.X.) play in the USB mode, the song can be played back again randomly even if not all songs on the USB Memory have been played back.*
- *If a CD changer or an MP3 compatible CD changer is connected: After pressing **F/SETUP** to select the function mode (/), perform the operation within 10 seconds.*

Searching for CD Text

On discs utilizing CD Text, songs can be searched and played by using their recorded titles. For discs without CD Text, searches are made using the track numbers associated with each song.

1 **Press /ENT during play.**
This will set the search mode.

2 **Turn the Rotary encoder to select the desired track, and then press /ENT.**
This will play the selected track.

- *Press /ESC in the search mode to cancel. Or, the search mode is cancelled if no operation is performed for 30 seconds.*
- *When CD Text Search is made during M.I.X. play, the M.I.X. play mode will be cancelled.*

File/Folder Name Search (Concerning MP3/WMA/AAC)

Folder and file names may be searched and displayed during playback.

1 **During MP3/WMA/AAC playback, press /ENT to activate the search mode.**

2 **Turn the Rotary encoder to select Folder Name Search mode or File Name Search mode, and then press /ENT.**

Folder Name Search mode

3 **Turn the Rotary encoder to select the desired folder.**

4 **Press and hold /ENT for at least 2 seconds to play back the first file in the selected folder.**

- *Press and hold /ESC for at least 2 seconds in the search mode to cancel. Or, the search mode is cancelled if no operation is performed for 30 seconds.*
- *To search for files in the Folder Name Search mode, press /ENT. Files in the folder may be searched.*
- *Press /ESC to exit Folder Name Search mode in step 3 in order to select File Name Search mode.*
- *The root folder is displayed as "––––––––––––".*
- *When Folder Name Search is made during M.I.X. play, the M.I.X. play mode will be cancelled.*

File Name Search mode

3 **Press ◀ or ▶ to select another Folder.**

4 **Select the desired file by turning the Rotary encoder.**

5 **Press /ENT to play back the selected file.**

- *Press and hold /ESC for at least 2 seconds in the search mode to cancel. Or, the search mode is cancelled if no operation is performed for 30 seconds.*
- *Press /ESC in the search mode to return to the previous mode.*
- *When File Name Search is made during M.I.X. play, the M.I.X. play mode will be cancelled.*

Quick Search

You can search for tracks (files).

1 **Press and hold /ENT for at least 2 seconds in the CD/Changer/MP3/WMA/AAC mode to activate Quick Search mode.**

2 **Turn the Rotary encoder to select a desired track (file).**
The selected track is played back immediately.

- *Press /ESC in the search mode to cancel. Or, the search mode is cancelled if no operation is performed for 10 seconds.*

About MP3/WMA/AAC

CAUTION
Except for private use, duplicating audio data (including MP3/WMA/AAC data) or distributing, transferring, or copying it, whether for free or for a fee, without permission of the copyright holder is strictly prohibited by the Copyright Act and by international treaty.

What is MP3?

MP3, whose official name is "MPEG-1 Audio Layer 3," is a compression standard prescribed by the ISO, the International Standardization Organization and MPEG which is a joint activity institution of the IEC.

MP3 files contain compressed audio data. MP3 encoding is capable of compressing audio data at extremely high ratios, reducing the size of music files to as much as one-tenth their original size. This is achieved while still maintaining near CD quality. The MP3 format realises such high compression ratios by eliminating the sounds that are either inaudible to the human ear or masked by other sounds.

What is AAC?

AAC is the abbreviation for "Advanced Audio Coding", and is a basic format of audio compression used by MPEG2 or MPEG4.

What is WMA?

WMA, or "Windows Media™ Audio," is compressed audio data. WMA is similar to MP3 audio data and can achieve CD quality sound with small file sizes.

Method for creating MP3/WMA/AAC files

Audio data is compressed using software with MP3/WMA/AAC codecs. For details on creating MP3/WMA/AAC files, refer to the user's manual for that software.
MP3/WMA/AAC files that are playable on this device have the file extensions.
MP3: "mp3"
WMA: "wma" (ver. 7.1, 8 and 9 are supported)
AAC: "m4a"

There are many different versions of the AAC format. Confirm that the software being used conforms to the acceptable formats listed above. It's possible that the format may be unplayable even though the extension is valid.
Playback of AAC files encoded by iTunes is supported.

Supported playback sampling rates and bit rates

MP3
Sampling rates: 48 kHz, 44.1 kHz, 32 kHz, 24 kHz, 22.05 kHz, 16 kHz, 12 kHz, 11.025 kHz, 8 kHz
Bit rates: 8 - 320 kbps

WMA
Sampling rates: 48 kHz, 44.1 kHz, 32 kHz
Bit rates: 48 - 192 kbps

AAC
Sampling rates: 48 kHz, 44.1 kHz, 32 kHz, 24 kHz, 22.05 kHz, 16 kHz, 12 kHz, 11.025 kHz, 8 kHz
Bit rates: 16 - 320 kbps

This device may not play back correctly depending on sampling rates.
In the USB mode, the playback time may not be correctly displayed when a VBR (Variable Bit Rate) recorded file is played back.

ID3 tags/WMA tags

This device supports ID3 tag v1 and v2, and WMA tag.
If tag data is in an MP3/WMA/AAC file, this device can display the title (track title), artist name, and album name ID3 tag/WMA tag data.
This device can only display single-byte alphanumeric characters (up to 30 for ID3 tags and up to 15 for WMA tags) and the underscore. For non-supported characters, the display is "NO SUPPORT".
If information contains characters other than ID3 tag information, the audio file may not be played back.
The tag information may not be correctly displayed, depending on the contents.

Playing back MP3/WMA/AAC discs

MP3/WMA/AAC files are prepared, then written to a CD-R, CD-RW using CD-R writing software or stored to a USB memory. A disc can hold up to 510 files/folders (including Root Folders), and the maximum number of folders is 255. This unit can recognize at least 100 folders (including root folder) and 100 files per folder stored in USB memory.
Playback may not be performed if a disc or USB memory exceeds the limitations described above.
Do not make a file's playback time more than 1 hour.

Media supported

The media that this device can play back are CD-ROMs, CD-Rs, and CD-RWs.
This device also can play back USB memory media.

Corresponding File Systems

This device supports discs formatted with ISO9660 Level 1 or Level 2.

Under the ISO9660 standard, there are some restrictions to remember.
The maximum nested folder depth is 8 (including the root directory). The number of characters for a folder/file name is limited.
Valid characters for folder/file names are letters A-Z (all caps), numbers 0-9, and '_' (underscore).

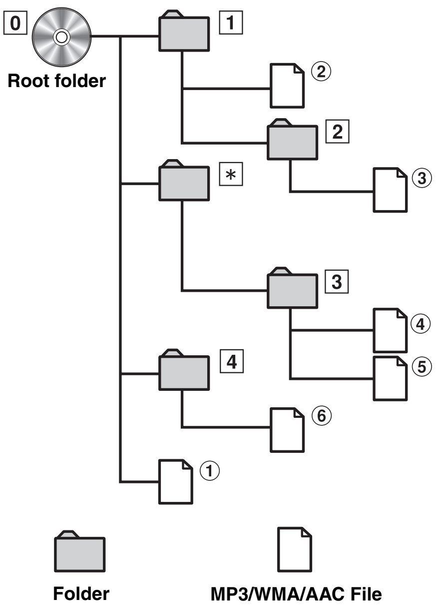
This device also can play back discs in Joliet, Romeo, etc., and other standards that conform to ISO9660. However, sometimes the file names, folder names, etc., are not displayed correctly.
This device also supports FAT 12/16/32 for USB memory device.

Formats supported

This device supports CD-ROM XA, Mixed Mode CD, Enhanced CD (CD-Extra) and Multi-Session.
This device cannot correctly play back discs recorded with Track At Once or packet writing.

Order of files

Files are played back in the order that the writing software writes them to the disc. Therefore, the playback order may not be what is expected. Verify the writing order in the software's documentation. The playback order of the folders and files is as follows.



* *The folder No./ folder Name will not be displayed if no file is contained in the folder.*

Terminology

Bit rate
This is the "sound" compression rate specified for encoding. The higher the bit rate, the higher the sound quality, but also the larger the files.

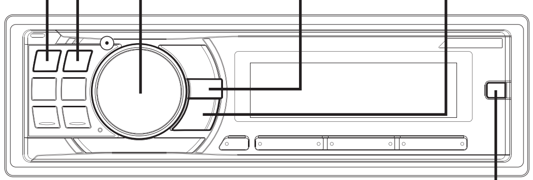
Sampling rate
This value shows how many times per second the data is sampled (recorded). For example, music CDs use a sampling rate of 44.1 kHz, so the sound is sampled (recorded) 44,100 times per second. The higher the sampling rate, the higher the sound quality, but also the larger the volume of data.

Encoding
Converting music CDs, WAVE (AIFF) files, and other sound files into the specified audio compression format.

Tag
Song information such as track titles, artist names, album names, etc., written into MP3/WMA/AAC files.

Root folder
The root folder (or root directory) is found at the top of the file system. The root folder contains all folders and files. It is created automatically for all burned discs.

Sound Setting



Adjusting Subwoofer Level/Bass Level/ Treble Level/Balance (Between Left and Right)/Fader (Between Front and Rear)/ Defeat

1 **Press Rotary encoder (AUDIO) repeatedly to choose the desired mode.**

Each press changes the mode as follows:

SUBW LEVEL* → BASS LEVEL → TREBLE LEVEL → BALANCE → FADER → DEFEAT → VOLUME → SUBW LEVEL

Subwoofer level: +0 ~ +15
Bass level: –7 ~ +7
Treble level: –7 ~ +7
Balance: L15 ~ R15
Fader: R15 ~ F15
Defeat: ON/OFF
Volume: 0 ~ 35

- *If no operation is performed for 5 seconds after selecting the SUBW LEVEL, BASS LEVEL, TREBLE LEVEL, BALANCE, FADER or DEFEAT mode, the unit automatically returns to normal mode.*

* *When the subwoofer mode is set to OFF, its level cannot be adjusted. Refer to "Turning Subwoofer ON/OFF" (page 14).*

2 **Turn the Rotary encoder until the desired sound is obtained in each mode.**
By setting DEFEAT ON, previously adjusted settings of BASS and TREBLE will return to the factory defaults.

- *Depending on the connected devices, some functions and display indications do not work.*

Setting the Subwoofer Level

You can change the Subwoofer Level to create your own tonal preference.

1 **Press SOUND SETUP to activate the Sound Setting mode.**

2 **Turn the Rotary encoder to select the SUBW LEVEL Adjustment mode, and then press /ENT.**

SUBW LEVEL*[1] ↔ BASS*[2] ↔ TREBLE*[2] ↔ HPF*[2] ↔ SUBW LEVEL

3 **Turn the Rotary encoder to select the desired subwoofer level (+0~+15).**

- *If no operation is performed for 15 seconds, the unit will return to normal mode automatically.*
- *When subwoofer is set to OFF and DEFEAT is set to ON, pressing the SOUND SETUP button momentarily will not be functional.*

*[1] *When the subwoofer mode is set to OFF, its level cannot be adjusted, refer to "Turning Subwoofer ON/OFF" (page 14).*
*The adjustment can also be made by pressing **Rotary encoder (AUDIO)**. Refer to "Adjusting Subwoofer Level/Bass Level/Treble Level/Balance (Between Left and Right)/Fader (Between Front and Rear)/Defeat" (page 12).*
*[2] *The function is inoperable when DEFEAT is set to ON.*

Setting the Bass Control

You can change the Bass Frequency emphasis to create your own tonal preference.

1 **Press SOUND SETUP to activate the Sound Setting mode.**

2 **Turn the Rotary encoder to select the BASS Adjustment mode, and then press /ENT.**

SUBW LEVEL*[3] ↔ BASS*[4] ↔ TREBLE*[4] ↔ HPF*[4] ↔ SUBW LEVEL

Setting the Bass Centre Frequency

3-1 **Press BAND to select the desired bass centre frequency.**

80 Hz → 100 Hz → 200 Hz → 60 Hz → 80 Hz

Emphasizes the displayed bass frequency ranges.

Setting the Bass Bandwidth

3-2 **Press SOURCE/⏻ to select the desired bass bandwidth.**

→ 1 → 2 → 3 → 4
(Narrow) ←·································→ (Wide)

Changes the boosted bass bandwidth to wide or narrow. A wider setting will boost a wide range of frequencies above and below the centre frequency. A narrower setting will boost only frequencies near the centre frequency.

Setting the Bass Level

3-3*5 Turn the Rotary encoder to select the desired bass level (–7~+7).
You can emphasize or weaken the bass level.

4 Press and hold ↩/ESC for at least 2 seconds to return to normal mode.

- *If no operation is performed for 15 seconds, the unit will return to normal mode automatically.*
- *The bass level settings will be individually memorized for each source (FM, AM, CD, etc.) until the setting is changed. The bass frequency and bass bandwidth settings adjusted for one source are effective for all other sources (FM, AM, CD, etc.).*
- *Depending on the connected devices, some functions and display indications do not work. However, Bass Level is still adjustable if an audio processor with the Bass function is connected.*
- *When subwoofer is set to OFF and DEFEAT is set to ON, pressing the SOUND SETUP button momentarily will not be functional.*

**3 When the subwoofer mode is set to OFF, its level cannot be adjusted. Refer to "Turning Subwoofer ON/OFF" (page 14).*
**4 The function is inoperable when DEFEAT is set to ON.*
5 The adjustment can also be made by pressing **Rotary encoder (AUDIO). Refer to "Adjusting Subwoofer Level/Bass Level/Treble Level/Balance (Between Left and Right)/Fader (Between Front and Rear)/Defeat" (page 12).*

Setting the Treble Control

You can change the Treble Frequency emphasis to create your own tonal preference.

1 Press SOUND SETUP to activate the Sound Setting mode.

2 Turn the Rotary encoder to select the TREBLE Adjustment mode, and then press 🔍/ENT.

SUBW LEVEL*6 ↔ BASS*7 ↔ TREBLE*7 ↔ HPF*7 ↔ SUBW LEVEL

Setting the Treble Centre Frequency

3-1 Press BAND to select the desired treble centre frequency.

10.0 kHz → 12.5 kHz → 15.0 kHz → 17.5 kHz → 10.0 kHz

Emphasizes the displayed treble frequency ranges.

Setting the Treble Level

3-2*8 Turn the Rotary encoder to select the desired treble level (–7~+7).
You can emphasize or weaken the treble level.

4 Press and hold ↩/ESC for at least 2 seconds to return to normal mode.

- *If no operation is performed for 15 seconds, the unit will return to normal mode automatically.*
- *The treble level settings will be individually memorized for each source (FM, AM, CD, etc.) until the setting is changed. The Treble frequency settings adjusted for one source are effective for all other sources (FM, AM, CD, etc.).*
- *Depending on the connected devices, some functions and display indications do not work. However, Treble Level is still adjustable if an audio processor with the Treble function is connected.*
- *When subwoofer is set to OFF and DEFEAT is set to ON, pressing the SOUND SETUP button momentarily will not be functional.*

**6 When the subwoofer mode is set to OFF, its level cannot be adjusted. Refer to "Turning Subwoofer ON/OFF" (page 14).*
**7 The function is inoperable when DEFEAT is set to ON.*
8 The adjustment can also be made by pressing **Rotary encoder (AUDIO). Refer to "Adjusting Subwoofer Level/Bass Level/Treble Level/Balance (Between Left and Right)/Fader (Between Front and Rear)/Defeat" (page 12).*

Adjusting the High Pass Filter

The High Pass Filter on this unit can be adjusted to suit your personal taste.

1 Press SOUND SETUP to activate the Sound Setting mode.

2 Turn the Rotary encoder to select the High Pass Filter (HPF) Adjustment mode, and then press 🔍/ENT.

SUBW LEVEL*9 ↔ BASS*10 ↔ TREBLE*10 ↔ HPF*10 ↔ SUBW LEVEL

3 Turn the Rotary encoder to select the High Pass Filter frequency.

OFF ↔ 60 Hz ↔ 80 Hz ↔ 100 Hz

4 Press and hold ↩/ESC for at least 2 seconds to return to normal mode.

- *If no operation is performed for 15 seconds, the unit will return to normal mode automatically.*
- *When an external audio processor is connected, this setting cannot be made.*
- *When subwoofer is set to OFF and DEFEAT is set to ON, pressing the SOUND SETUP button momentarily will not be functional.*

**9 When the subwoofer mode is set to OFF, its level cannot be adjusted. Refer to "Turning Subwoofer ON/OFF" (page 14).*
**10 The function is inoperable when DEFEAT is set to ON.*

Turning Loudness On/Off

Loudness introduces a special low-and high-frequency emphasis at low listening levels. This compensates for the ear's decreased sensitivity to bass and treble sound.

Press and hold Rotary encoder (LOUD) for at least 2 seconds to activate or deactivate the loudness mode.

- *When an external audio processor is connected, this setting cannot be made.*
- *The function is inoperable when DEFEAT is set to ON.*

Turning Subwoofer ON/OFF

When the subwoofer is on, you can adjust the subwoofer output level (refer to page 12).

1 **Press and hold SOUND SETUP for at least 2 seconds to activate the Subwoofer selection mode.**

2 **Turn the Rotary encoder to select the SUBWOOFER mode, and then press /ENT.**

SUBWOOFER ↔ SUBW SYSTEM*[11] ↔ SUBWOOFER

3 **Turn the Rotary encoder to select SUBW ON/OFF, and then press /ENT.**

SUBW ON (Initial setting) ↔ SUBW OFF

4 **Press and hold /ESC for at least 2 seconds to return to normal mode.**

- *If no operation is performed for 15 seconds, the unit will return to normal mode automatically.*

*[11]*Displayed only when SUBWOOFER is set to ON.*

Setting the Subwoofer System

When the subwoofer is on, you can select either System1 or System2 for the desired subwoofer effect.

1 **Press and hold SOUND SETUP for at least 2 seconds to activate the Subwoofer selection mode.**

2 **Turn the Rotary encoder to select the SUBW SYSTEM mode, and then press /ENT.**

SUBWOOFER ↔ SUBW SYSTEM ↔ SUBWOOFER

3 **Turn the Rotary encoder to select SUBW SYS 1 or SUBW SYS 2, and then press /ENT.**
Select either SYS 1 or SYS 2 for the desired subwoofer effect.

SUBW SYS 1 (Initial setting) ↔ SUBW SYS 2

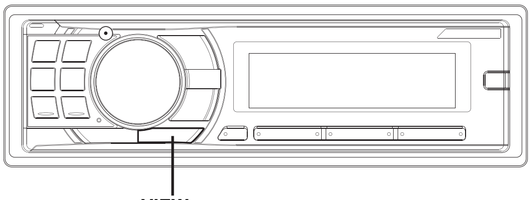
SUBW SYS 1: Subwoofer level changes according to the main volume setting.

SUBW SYS 2: Subwoofer level change is different from the main volume setting. For example, even at low volume settings, the subwoofer is still audible.

4 **Press and hold /ESC for at least 2 seconds to return to normal mode.**

- *If no operation is performed for 15 seconds, the unit will return to normal mode automatically.*
- *This function is inoperable when SUBWOOFER is set to OFF.*

Other Functions



Displaying the Text

Text information, such as the disc name and the track name, will be displayed if playing a CD text compatible disc. It is also possible to display the folder name, the file name, and the tag, etc., while playing MP3/WMA/AAC files.

Press VIEW.
The display will change every time the button is pressed.

- *When the TEXT SCROLL is set to SCROLL MANU, press and hold **VIEW** for at least 2 seconds, the current text will be scrolled one time (except Radio mode).*

The display in Radio mode:

FREQUENCY → CLOCK → FREQUENCY

The display in CD mode:

TRACK NO./ELAPSED TIME → TRACK NO./CLOCK → TEXT (DISC NAME)*[1] → TEXT (TRACK NAME)*[1] → TRACK NO./ELAPSED TIME

The display in MP3/WMA/AAC mode:

FILE NO./ELAPSED TIME → FOLDER NO./FILE NO. → FILE NO./CLOCK → FOLDER NAME*[2] → FILE NAME → ARTIST NAME*[3] → ALBUM NAME*[3] →SONG NAME*[3] → FILE NO./ELAPSED TIME

The display in Bluetooth Audio mode:

The Following display will be shown only when a telephone or Bluetooth Streaming device with Metadata capabilities is correctly connected with a Bluetooth INTERFACE (KCE-400BT). For details, refer to the Owner's Manual of the Bluetooth INTERFACE (KCE-400BT).

BT AUDIO → CLOCK → ARTIST NAME*[4] → ALBUM NAME*[4] → SONG NAME*[4] → BT AUDIO

*[1] *Displayed during playback of a disc with CD Text.
If there is no Text (Disc Name or Track Name), "DISC TEXT"/ "TRACK TEXT" is displayed. "DISC TEXT"/"TRACK TEXT" is displayed for changer.*

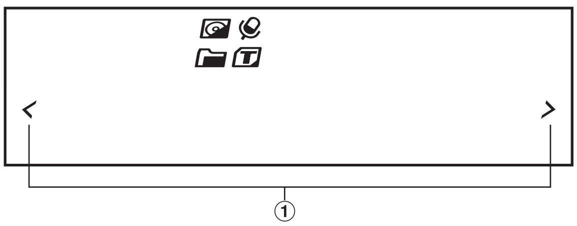
*[2] *The root folder is displayed as "FOLDER". The root folder of USB memory is displayed as "ROOT".*

*[3] *ID3 tag/WMA tag
If an MP3/WMA/AAC file contains ID3 tag/WMA tag information, the ID3 tag/WMA tag information is displayed (e.g., song name, artist name, and album name). All other tag data is ignored.
If the Scroll Setting (page 16) is set to "SCROLL AUTO", the tag information will scroll automatically.
If there is no tag information, "ARTIST"/"ALBUM"/"SONG" is displayed.*

*[4] *When a BT AUDIO signal is received, text information such as artist, album, song is displayed.
If there is no text information, "ARTIST"/ "ALBUM"/ "SONG" will be displayed.*

About the indication display

When displaying Text, the following indicators are lit according to the mode.



① Lights up in SETUP mode, search mode and sound setting mode, etc.

Indicator/ Mode	CD Mode	MP3/WMA/AAC/ USB AUDIO Mode	iPhone/iPod/BT AUDIO Mode
	—	Folder Name being displayed	—
	—	Artist Name being displayed	Artist Name being displayed
	Text (Disc Name) being displayed	Album Name being displayed	Album Name being displayed
	Text (Track Name) being displayed	Song Name/ File Name being displayed	Song Name being displayed

About “Text”

Text:

Text compatible CDs contain text information such as the disc name and track name. Such text information is referred to as “text”.

- *Some characters may not be displayed correctly with this device, depending on the character type.*
- *The CD changer must also be CD Text compatible for the Text information to be displayed.*
- *The text or tag information may not be correctly displayed, depending on the contents.*

Displaying Time

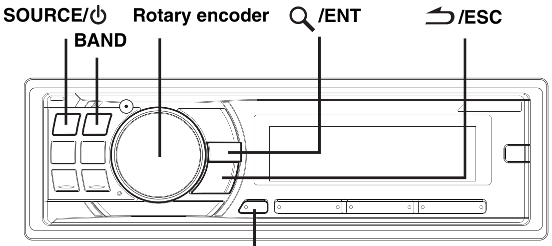
Press VIEW repeatedly until the time is displayed.

Each press changes the display.
For details, see “Displaying the Text” (page 14).

- *Selecting any tuner or CD function while in the clock priority mode will interrupt the time display momentarily. The function selected will be displayed for about 5 seconds before the time returns to the display.*
- *When the power is off but the ignition key is on, press **VIEW** to display or turn off the time.*

SETUP

You can flexibly customize the unit to suit your own preferences and usage. From the SETUP menu, Visual Customizing, External Device, etc., can be modified.



Use steps 1 to 4 to select one of the SETUP modes to modify. See the applicable section below for details about the selected SETUP item.

1 **Press and hold F/SETUP for at least 2 seconds to activate the SETUP mode.**

2 **Turn the Rotary encoder to select the desired item, and then press /ENT.**

(e.g. Select POWER IC)

BLUETOOTH IN*1 ↔ ILLUMINATION ↔ LCD CONTRAST ↔ DIMMER ↔ PLAY MODE ↔ SCROLL TYPE ↔ TEXT SCROLL ↔ INT MUTE*2 ↔ CLOCK ADJUST*3 ↔ AUX+ SETUP ↔ AUX+ NAME*4 ↔ AUX IN GAIN*4 ↔ DIGITAL AUX ↔ D-AUX NAME*5 ↔ AUX IN ↔ AUX NAME*6 ↔ POWER IC ↔ DEMO ↔ BLUETOOTH IN

*1 *Displayed only when INT MUTE is OFF, and the mode is set to other than BT AUDIO.*
*2 *Displayed only when BLUETOOTH IN is OFF.*
*3 *Refer to “Setting the Time” (page 7).*
*4 *Displayed only when AUX+ SETUP is ON.*
*5 *Displayed only when DIGITAL AUX is ON.*
*6 *Displayed only when AUX IN is ON.*

3 **Turn the Rotary encoder to change the setting, and then press /ENT.**
(e.g. Select POWER IC ON or POWER IC OFF)

4 **Press and hold F/SETUP for at least 2 seconds to return to normal mode.**

- *Pressing **/ESC** returns to the previous SETUP mode.*
- *If no operation is performed for 60 seconds, SETUP is cancelled.*

BLUETOOTH IN

Setting the Bluetooth Connection

BT IN ADAPTE / BT IN OFF (Initial setting)

If an optional Bluetooth INTERFACE (KCE-400BT) is connected, you can place a hands-free call by a Bluetooth- equipped mobile phone. Make this setting when the Bluetooth INTERFACE (KCE-400BT) is connected and the Bluetooth function is used. For details, refer to the Owner's Manual of the optional Bluetooth INTERFACE (KCE-400BT). Set ADAPTE when the Bluetooth INTERFACE (KCE-400BT) is connected.

- *The* ☎ *button can be used only when the optional Bluetooth INTERFACE (KCE-400BT) is connected.*
- *If the mobile phone compatible with the Voice Dial function is connected, the Voice Dial function can be used.*

Visual Customizing

Changing Lighting Colour

ILLUMI TYPE1 (Initial setting) / ILLUMI TYPE2

You can change the lighting colour of the following six buttons.
SOURCE/⏻, BAND, ◄, ►, ◄◄, ►►.

TYPE1: When the colour of the six buttons is blue, the colour of the other is red.
TYPE2: When the colour of the six buttons is red, the colour of the other is red.

Adjusting Display Contrast

CONTRAST

You can adjust the display contrast for better visibility.

You can adjust in a range of -5 and +3.

- *The initial setting at the factory is "0".*

Dimmer Control

DIMMER AUTO (Initial setting) / DIMMER MANU

Set the DIMMER control to AUTO to decrease the illumination brightness of the unit with the head lights of the vehicle ON. This mode is useful if you feel the unit's backlighting is too bright at night.

Scroll Type Setting

SCROLL TYPE1 / SCROLL TYPE2 (Initial setting)

Choose from two scrolling methods.
Select the type you prefer.

SCROLL TYPE1: The characters scroll from right to left, one character at a time.
SCROLL TYPE2: Words are built up from left to right, a single character at a time. When the display is full, it is cleared and the subsequent words are displayed the same way until all words of the title have been shown.

Scroll Setting (TEXT SCROLL)

SCROLL AUTO / SCROLL MANU (Initial setting)

This CD player can scroll the disc and track names recorded on CD-TEXT discs, as well as the text information of MP3/WMA/AAC files, folder names and tags.

SCROLL AUTO: CD text information, folder and file names are scrolled continuously. In addition, all tag information is automatically rotated in the display continuously, without pressing the VIEW button.
SCROLL MANU: The above information is scrolled only when a disc is loaded, a channel or track is changed, etc.

- *The unit scrolls CD text names, folder names, file names or tag display.*

Demonstration

DEMO ON / DEMO OFF (Initial setting)

This unit has a demonstration feature for the display.

- *To quit Demo mode, set to DEMO OFF.*

MP3/WMA/AAC

Playing MP3/WMA/AAC Data (PLAY MODE)

CD-DA (Initial setting) / CD-DA&MP3

This unit can play back CDs containing both CD and MP3 /WMA/AAC data (created in Enhanced CD (CD Extra) format). However, in some situations, playback of an enhanced CD may be difficult. In this case, you can select playback of a single session only, containing the CD data. When a disc contains both CD and MP3/WMA/AAC data, playback starts from the CD data portion of the disc.

CD-DA: Only the CD data in Session 1 can be played back.
CD-DA&MP3: CD data, MP3/WMA/AAC files in mixed mode, and multi-session discs can be played back.

- *Perform this setting before inserting a disc. If a disc has already been inserted, remove it first. (If you use an MP3 changer, you have to change discs.)*

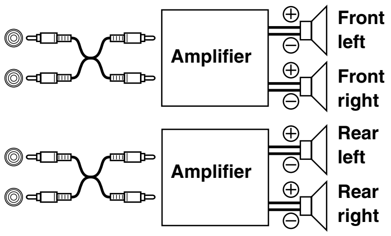
External Device

Connecting to an External Amplifier

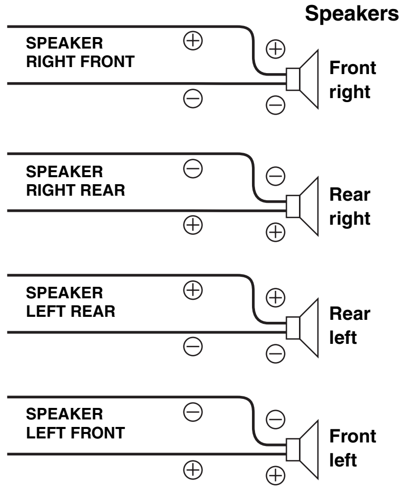
POWER IC ON (Initial setting) / POWER IC OFF

When an external amplifier is connected, sound quality can be improved by stopping the power supply of the built-in amplifier.

POWER IC OFF: Use this mode when the line output of this unit is used to drive an external amplifier. In this setting, the head unit's internal amplifier is turned OFF and can not drive speakers.



POWER IC ON: The speakers are driven by the built-in amplifier.



- *No sound is produced by the system when the POWER IC is set to OFF.*

Turning Mute Mode On/Off (INT MUTE)

MUTE ON / MUTE OFF (Initial setting)

If a device having the interrupt feature is connected, audio will be automatically muted whenever the interrupt signal is received from the device.

Setting the AUX+ SETUP Mode

AUX+ ON / AUX+ OFF (Initial Setting)

You can input the audio of an external device, (such as a Portable audio player) to the Bluetooth interface connector of this unit. A special Conversion cable (KCE-237B) is necessary to adapt the Bluetooth interface connector as an AUX IN.
A portable music device and a Bluetooth INTERFACE (KCE-400BT) cannot be connected to the Bluetooth I/F connector at the same time.

AUX+ ON: Set to ON when a portable device is connected. If SOURCE/⏻ is pressed and AUX+ is selected, the sound of the portable device is input to the unit.
AUX+ OFF: When set to OFF, AUX+ source cannot be selected.

You can change the AUX+ NAME display when AUX+ SETUP is set to ON. Press 🔍 **/ENT** when AUX+ SETUP is set to ON, and select AUX+ NAME by turning the **Rotary encoder**, then press 🔍 **/ENT**. After that, turn the **Rotary encoder** to select the desired AUX+ NAME.

Setting the AUX+ Level (AUX IN GAIN)

LOW (Initial setting) / HIGH

After setting to ON in “Setting the AUX+ SETUP Mode”, this setting can be carried out.

LOW: Decreases the external input audio level.
HIGH: Increases the external input audio level.

Setting the External Digital Input

D-AUX ON / D-AUX OFF (Initial setting)

When an ALPINE Ai-NET compatible digital audio processor (PXA-H701) and a DVD player (DVE-5207) not compatible with Ai-NET are connected, set D-AUX to ON to enjoy 5.1-channel surround sound.
You can change the D-AUX NAME display when D-AUX is set to ON. Press 🔍 **/ENT** when D-AUX is set to ON, and select D-AUX NAME by turning the **Rotary encoder**, then press 🔍 **/ENT**. After that, turn the **Rotary encoder** to select the desired D-AUX NAME.

- *Press **SOURCE/⏻** , and select the DIGITAL-AUX mode, and adjust the volume, etc.*
- *After input selection is completed, turn the ignition off and back on again. Setting of the optical digital input switch is completed.*
- *Depending on the connected audio processor, DVD player sound may continue to be output, even though the source is changed to another one. If this occurs, set the DVD player’s power to OFF.*

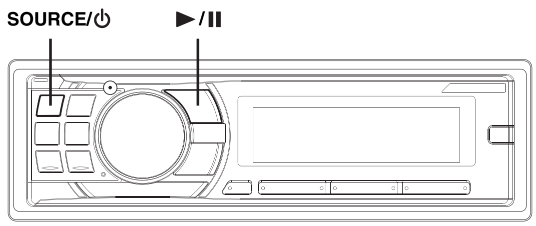
Setting the AUX Mode (V-Link)

AUX IN ON / AUX IN OFF (Initial setting)

You can input TV/video sound by connecting an optional Ai-NET/RCA Interface cable (KCA-121B) or Versatile Link Terminal (KCA-410C) to this component.
You can change the AUX name display when AUX IN is set to ON. Press 🔍 **/ENT** when AUX IN is set to ON, and select AUX NAME by turning the **Rotary encoder**, and then press 🔍 **/ENT**.
After that, turn the **Rotary encoder** to select the desired AUX name.
If the KCA-410C is connected, it is possible to select two AUX names.

- *Via KCA-410C, up to 2 external devices with RCA output can be connected. In this case, press **SOURCE/⏻** to select AUX mode and then press **BAND** to select your desired device.*

USB memory (Optional)



Controlling USB memory (Optional)

A USB memory device may be connected to this unit. With a USB memory device connected to this unit, the audio files will be playable from this unit.

- *The controls on this unit for USB memory operation are operative only when a USB memory is connected.*

Playing MP3/WMA/AAC Files with the USB memory (Optional)

If you connect a USB memory device containing MP3/WMA/AAC, these files are playable on this unit.

1 **Press SOURCE/⏻ to switch to the USB AUDIO mode.**

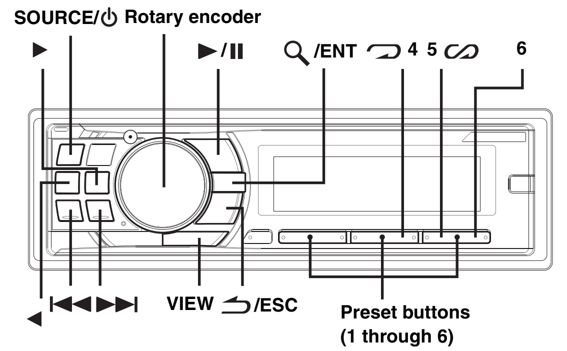
TUNER → DISC → USB AUDIO*[1]/USB iPod*[2] → BT AUDIO*[3]/ AUX+*[4] → CHANGER*[5] → TUNER

*[1] *Displayed only when no iPhone/iPod is connected.*
*[2] *Displayed only when the iPhone/iPod is connected.*
*[3] *Displayed only when BLUETOOTH IN is set to ADAPTE, refer to "Setting the Bluetooth Connection" (page 16).*
*[4] *Displayed only when the AUX+ SETUP is set to ON, refer to "Setting the AUX+ SETUP Mode" (page 17).*
*[5] *Only when the CD changer is connected.*

2 **To pause playback, press ▶/II .**
Pressing ▶/II again will resume the playback.

- *The root folder is displayed as "ROOT" in the Folder Name Search mode.*
- *This unit plays back files in the USB memory with the same controls and modes as playback of CDs containing MP3/WMA/AAC. For details, refer to "CD/MP3/WMA/AAC" on pages 8 to 11.*
- *Before disconnecting USB memory, be sure to change to another source or set to pause.*
- *The playback time may not be correctly displayed when a VBR (Variable Bit Rate) recorded file is played back.*

iPhone/iPod (Optional)



An iPhone/iPod can be connected to this unit by using the Interface cable for iPod (KCU-440i, sold separately). When this unit is connected by using the cable, the controls on the iPod are not functional.

- *Internet and telephone functions of iPod touch or iPhone, etc., can also be used when connecting to the unit. However, using these functions will stop or pause the playing songs, at this time do not operate the unit to avoid a malfunction.*
- *If you connect an iPhone to this unit, it can be used as an iPod. If you use iPhone as a hands-free phone, you need the optional Bluetooth INTERFACE (KCE-400BT).*

iPhone/iPod models usable with this unit

- The unit can be used with the following iPhone/iPod models.

  iPhone 3G (version 2.0)
  iPhone (version 1.1.4)
  iPod touch (version 1.0.4)
  iPod classic (version 1.1.1)
  iPod nano (3rd generation) (version 1.1)
  iPod nano (2nd generation) (version 1.1.3)
  iPod with video (version 1.2.3)
  iPod nano (1st generation) (version 1.3.1)

- For clarity in identifying your model of iPod, please see Apple's own document "Identifying iPod models" at http://support.apple.com/kb/HT1353
- If the unit is used with versions of iTunes earlier than 7.6, correct function and performance are not guaranteed.
- This unit does not support video playback from iPhone/iPod, even using a video-compatible cable.

Playback

1 **Press SOURCE/⏻ to switch to the USB iPod mode.**

TUNER → DISC → USB AUDIO*[1]/USB iPod*[2] → BT AUDIO*[3]/ AUX+*[4] → CHANGER*[5] → TUNER

*[1] *Displayed only when no iPhone/iPod is connected.*
*[2] *Displayed only when the iPhone/iPod is connected.*
*[3] *Displayed only when BLUETOOTH IN is set to ADAPTE, refer to "Setting the Bluetooth Connection" (page 16).*
*[4] *Displayed only when the AUX+ SETUP is set to ON, refer to "Setting the AUX+ SETUP Mode" (page 17).*
*[5] *Only when the CD changer is connected.*

2 Press ◀◀ or ▶▶ to select the desired song.

Return to the beginning of the current song:
Press ◀◀.

Fast backward through current song:
Press and hold ◀◀.

Advance to the beginning of the next song:
Press ▶▶.

Fast forward through current song:
Press and hold ▶▶.

3 To pause playback, press ▶/II.
Pressing ▶/II again will resume playback.

- *A song playing on the iPhone/iPod while it is connected to this unit will continue to play from where it was paused after disconnection.*
- *If you listen to an episode from a selected podcast or audiobook, the episode can be changed by pressing ◀ or ▶.*
- *An episode may have several chapters. The chapter can be changed by pressing ◀◀ or ▶▶.*

Searching for a desired Song

An iPhone/iPod can contain hundreds of songs. By using file tag information and keeping these songs organised in playlists, this unit's search functions will ease song searches.
Each music category has its own individual hierarchy. Use the PLAYLIST/ARTIST/ALBUM/SONG/PODCAST/GENRE/COMPOSER/AUDIOBOOK search mode to narrow searches based on the table below.

Hierarchy 1	Hierarchy 2	Hierarchy 3	Hierarchy 4
PLAYLIST	Song	—	—
ARTIST*	Album*	Song	—
ALBUM*	Song	—	—
SONG	—	—	—
PODCAST	Episode	—	—
GENRE*	Artist*	Album*	Song
COMPOSER*	Album*	Song	—
AUDIOBOOK	—	—	—

For example: Searching by Artist name
The following example explains how an ARTIST search is performed. Another search mode can be used for the same operation, although the hierarchy differs.

1 Press 🔍/ENT to activate the search selection mode.

2 Turn the Rotary encoder to select the Artist search mode, and then press 🔍/ENT.

PLAYLIST ↔ ARTIST ↔ ALBUM ↔ SONG ↔ PODCAST ↔ GENRE ↔ COMPOSER ↔ AUDIOBOOK ↔ PLAYLIST

3 Turn the Rotary encoder to select the desired Artist, and then press 🔍/ENT.

4 Turn the Rotary encoder to select an album, and then press 🔍/ENT.

5 Turn the Rotary encoder to select a song and press 🔍/ENT.
The selected song is played back.

- *After pressing and holding 🔍/ENT for at least 2 seconds while in each hierarchy (except SONG and AUDIOBOOK hierarchy), all songs of the selected hierarchy are played back.*
- *After selecting [ALL] in the search mode with "*", press and hold 🔍/ENT for at least 2 seconds to play back all songs in the iPhone/iPod or selected search mode.*
- *While in the search mode, if you press and hold ⮌/ESC for at least 2 seconds, or no operation is performed for 30 seconds, the search mode is cancelled.*
- *In the search mode, pressing ⮌/ESC will return to the previous mode.*
- *When search is made during M.I.X. play, the M.I.X. play mode will be cancelled.*
- *"NO SONG" will be displayed if there is no song in the selected playlist in the PLAYLIST search mode.*
- *"NO PODCAST" will be displayed if there is no podcast data in the iPhone/iPod in the PODCAST search mode.*
- *"NO AUDIOBOOK" will be displayed if there is no audiobook data in the iPhone/iPod in the AUDIOBOOK search mode.*
- *If "iPod name" stored in the iPod is selected in the desired playlist search mode and 🔍/ENT is pressed, you can search for all songs in the iPod. Also, if you press and hold 🔍/ENT for at least 2 seconds, all songs in the iPhone/iPod are played back.*
- *Depending on the iPhone/iPod, podcast search is not supported.*
- *If Alphabet Skip Function is activated in the search mode, a search can be made quickly by Alphabet skip function to find the desired artist or song, etc. For details, refer to "Alphabet Skip Function" on page 20.*
- *If any one of the **preset buttons (1 through 6)** is pressed in the search mode, a search can be made quickly by skipping to the specified location. For details, refer to "Direct Search Function" on page 20.*
- *If no operation is performed for 30 seconds during search mode, the unit will return to normal mode.*

Quick Search

You can search a song from all songs in the iPhone/iPod without selecting an album, artist, etc.

1 **Press and hold 🔍/ENT for at least 2 seconds to activate the Quick Search mode.**

2 **Turn the Rotary encoder to select a desired song.**
The selected song is played back immediately.

- *While in the search mode, if you press ⮌/ESC, or no operation is performed for 10 seconds, the search mode is cancelled.*
- *If many songs are in iPhone/iPod, it takes time to search for songs.*
- *If any one of the **preset buttons (1 through 6)** is pressed in the search mode, a search can be made quickly by skipping to the specified location. For details, refer to "Direct Search Function" on page 20.*
- *This function is inactive during repeat (⟲) playback.*

Direct Search Function

The unit's direct search function can be used to search for an album, song, etc., more efficiently. In Playlist/Artist/Album/Song/Podcast/Genre/Composer/Audiobook mode, you can quickly target any song.

In the search mode, press any one of the preset buttons (1 through 6) to quickly skip over a designated percent of your song content.
Song search example:
If there are 100 songs in your iPhone/iPod, they are divided into 6 groups using percentages (shown below). These groups are assigned to preset buttons 1 through 6.

Example 1:
Suppose the song you are searching for is located at around the middle (50%) of your library: press button 4 to jump to the 50th song and turn the Rotary encoder to find the desired song.

Example 2:
Suppose the song you are searching for is located near the end (83%) of your library: press button 6 to jump to the 83rd song and turn the Rotary encoder to find the desired song.

	All 100 songs (100%)					
	0%	17%	33%	50%	67%	83%
Preset buttons	1	2	3	4	5	6
Songs	First song	17th song	33rd song	50th song	67th song	83rd song

Select Playlist/Artist/Album/Genre/Composer

Playlist/Artist/Album/Genre/Composer can be easily changed.
For example, if you listen to a song from a selected album, the album can be changed.

Press ◀ or ▶ select the desired Playlist/Artist/Album/Genre/Composer.

- *If the song search mode was used to select a song, this function is inactive.*
- *If an album is selected during an artist search, other albums by that artist are searchable.*
- *This function is inactive during shuffle (⤮) playback.*

Alphabet Skip Function

The initial skip function is skipped to the next number, symbol or letter such as from A to B, B to C.
You can skip in reverse order such as B to A by pressing ◀.

During search mode, press ◀ or ▶ to perform the Alphabet Skip Function.
A list is skipped to the next number, symbol or letter.

- *If the ◀ or ▶ is pressed and held, the display continuously changes.*

Random Play Shuffle (M.I.X.)

The Shuffle function of the iPhone/iPod is displayed as on this unit.

Shuffle Albums:
The songs on each album are played back in proper order. Upon completion of all the songs on the album, the next album is selected randomly. This continues until all albums have been played.

Shuffle Songs:
Song shuffle randomly plays back songs within a selected category (playlist, album, etc.). The songs within the category are played just once until all songs have been played.

1 Press 5 .
The songs are played back in random sequence.

→ → (off) →
(Shuffle Albums) (Shuffle Songs)

2 To cancel M.I.X. play, select (off) with the above procedure.

- *If a song is selected in the album search mode before selecting M.I.X. play, the songs will not play back randomly even when Shuffle Albums is selected.*

Shuffle ALL:
Shuffle ALL plays all songs in the iPhone/iPod randomly. Any one song does not play back again until all songs have been played back.

1 Press 6.
The songs are played back in random sequence.

→ (off) →
(Shuffle ALL)

2 To cancel M.I.X. play, select (off) with the above procedure.

- *If Shuffle ALL is selected, the selected songs being played back in the search mode are cancelled.*

Repeat Play

Only Repeat One is available for the iPhone/iPod.

Repeat One:
A single song is repeatedly played back.

1 Press 4.
The song is played back repeatedly.

→ (off) →
(Repeat One)

2 To cancel repeat play, select (off) with the above procedure.

- *During repeat playback, no other songs are selectable by pressing ◀◀ or ▶▶.*

Displaying the Text

You can display the tag information of a song in the iPhone/iPod.

Press VIEW.
Each press changes the display.

- *When the TEXT SCROLL is set to MANU, press and hold **VIEW** for at least 2 seconds, the current text will be scrolled one time.*

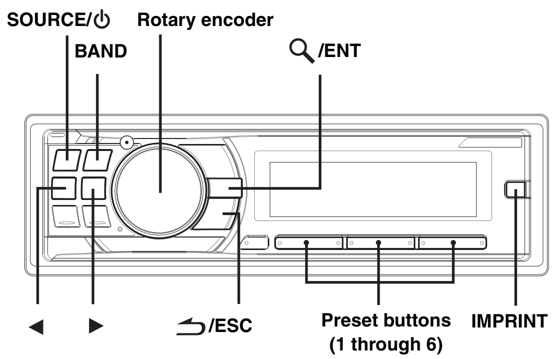
TRACK NO./ELAPSED TIME → TRACK NO./CLOCK → ARTIST NAME* → ALBUM NAME* → SONG NAME* → TRACK NO./ELAPSED TIME

* *TAG information*
"ARTIST"/"ALBUM"/"SONG" is displayed if there is no tag information.

- *Only alphanumeric characters (ASCII) can be displayed.*
- *If the artist, album or song name, created in iTunes, has too many characters, songs may not be played back when connected to the adapter. Therefore, a maximum of 70 characters is recommended. The maximum number of characters for the head unit is 70 (70 byte).*
- *Some characters may not be correctly displayed.*
- *"NO SUPPORT" is displayed if text information is not supported by the unit.*

IMPRINT Operation (Optional)

Alpine introduces IMPRINT - the world's first technology that thoroughly eliminates in-car acoustic problems that normally degrade sound quality, which enables us to experience music the way the artist intended, refer to "About IMPRINT" (page 29).
When the IMPRINT audio processor (PXA-H100) (sold separately) is connected to this unit, MultEQ and the following sound adjustment can be performed.



Changing MultEQ mode

MultEQ, developed by Audyssey Labs, automatically corrects the audio for the listening environment. The system is optimized for selected positions in the vehicle. To accomplish this, MultEQ must take measurements of the vehicles response characteristics. For details on the set up procedure, consult your authorized Alpine dealer.

Press and hold IMPRINT for at least 2 seconds to change MultEQ mode.

MULTEQ OFF (Manual Mode) → CURVE 1 (MultEQ-1) → CURVE 2 (MultEQ-2) → MULTEQ OFF (Manual Mode)

- *The Curve mode can be selected only when curve 1 and curve 2 are stored.*
- *When using MultEQ, MEDIAXPANDER, MX LEV MODE, CROSSOVER, T.CORR PARA, FACTORY'S EQ. SUBW PHASE, SUBW CHANNEL, TW SETUP, EQ MODE, FILTER TYPE and PARAMETER EQ/GRAPHIC EQ are set automatically. They are no longer user adjustable.*
- *When an external audio processor is connected, the MultEQ function cannot be used.*

Adjusting Subwoofer Level/Bass Level/Treble Level/Fader (Between Front and Rear)/Balance (Between Left and Right) in MultEQ mode

You can change these settings to create your own preference in MultEQ (CURVE 1 or CURVE 2) mode.

1 **Press IMPRINT to activate the MultEQ adjustment mode.**

2 **Turn the Rotary encoder to select the desired item, and then press /ENT.**

SUBW LEVEL*[1] ↔ BASS LEVEL ↔ TREBLE LEVEL ↔ FADER*[2] ↔ BALANCE ↔ SUBW LEVEL

3 **Turn the Rotary encoder to change the setting as below, and then press /ENT.**

Subwoofer level: +0 ~ +15
Bass level: -7~+7
Treble level: -7~+7
Fader: R15 ~ F15
Balance: L15 ~ R15

- *If no operation is performed for 60 seconds after selecting the SUBW LEVEL, BASS LEVEL, TREBLE LEVEL, FADER or BALANCE mode the unit automatically returns to normal mode.*

*[1] *When the SUBWOOFER mode is set to OFF, its level cannot be adjusted, and the SUBWOOFER ON/OFF cannot be adjusted in MultEQ (CURVE 1 or CURVE 2) mode.*
*[2] *If you set the 2.2ch (3WAY)/4.2ch (FRONT/REAR/SUBW.) switch of the IMPRINT audio processor (PXA-H100) to 2.2ch (3WAY), you cannot adjust the FADER mode. For details, refer to the Owner's Manual of PXA-H100.*

- *Depending on the connected devices, some functions and display indications do not work.*

Adjusting Sound Setting in Manual Mode

You can change these sound settings to create your own preference when the MultEQ mode is set to MULTEQ OFF (Manual Mode).

Use steps 1 to 4 to select one of the Sound menu modes to modify. See the applicable section below for details about the selected item.

1 **Press IMPRINT to activate the Sound menu selection mode.**

2 **Turn the Rotary encoder to select the desired item, and then press /ENT.**

SUBWOOFER ↔ SUBW SYSTEM*1 ↔ SUBW PHASE*1 ↔ SUBW CHANNEL*1 ↔ FACTORY'S EQ ↔ TW SETUP*2 ↔ FILTER TYPE ↔ MEDIAXPANDER ↔ MX LEV MODE*3 ↔ EQ MODE ↔ T.CORR PARA ↔ SOUND ADJUST*4 ↔ SUBWOOFER
(e.g. Select SUBWOOFER)

*1 *These functions are inoperable when SUBWOOFER is set to OFF.*
*2 *This function can be operable only when PXA-H100 (sold separately) is connected and 2.2ch (3WAY) mode is set. For details, refer to the Owner's Manual of PXA-H100.*
*3 *This function is inoperable when MEDIAXPANDER is set to OFF.*
*4 *In step 2, three sound adjustment items (PARAMETER EQ/ GRAPHIC EQ, T.CORRECTION, CROSSOVER) can be selected in SOUND ADJUST mode, turn the* ***Rotary encoder*** *to select the desired item, and then press* ***/ENT*** *to continue to step 3.*

3 **Turn the Rotary encoder to change the setting, and then press /ENT.**

(e.g. Select SUBW ON or SUBW OFF)

4 **Press and hold /ESC for at least 2 seconds to return to normal mode.**

- *MEDIAXPANDER FACTORY'S EQ, PARAMETER EQ/GRAPHIC EQ, EQ MODE and MX LEV MODE Adjustment are inoperable when DEFEAT is set to ON.*
- *Pressing* ***/ESC*** *returns to the previous Sound menu mode.*
- *If no operation is performed for 60 seconds, Sound menu mode is cancelled.*

Turning Subwoofer ON/OFF

When the subwoofer is on, you can adjust the subwoofer output level (refer to page 12).

SUBW OFF ↔ SUBW ON (Initial setting)

Setting the Subwoofer System

When the subwoofer is on, you can select either System1 or System2 for the desired subwoofer effect.

SUBW SYS 1 (Initial setting) ↔ SUBW SYS 2

SUBW SYS 1 : Subwoofer level changes according to the main volume setting.
SUBW SYS 2 : Subwoofer level change is different from the main volume setting. For example, even at low volume settings, the subwoofer is still audible.

Setting the Subwoofer Phase

NORMAL (Initial setting) ↔ REVERSE

The subwoofer output phase is toggled SUBWOOFER NORMAL (0°) or SUBWOOFER REVERSE (180°). To adjust the level, turn the **Rotary encoder**.

Setting the Subwoofer Channel (SUBW CHANNEL)

You can set the subwoofer output to stereo or monaural. Make sure to set the correct output for your subwoofer type.

STEREO (Initial setting) ↔ MONO

STEREO: Subwoofer stereo (L/R) output
MONO: Subwoofer monaural output

Equalizer Presets (FACTORY'S EQ)

10 typical equalizer settings are preset at the factory for a variety of musical source material.

FLAT ↔ POPS ↔ ROCK ↔ NEWS ↔ JAZZ&BLUES ↔ ELEC DANCE ↔ HIP HOP&RAP ↔ EASY LISTEN ↔ COUNTRY ↔ CLASSICAL ↔ USER 1 ↔ USER 2 ↔ USER 3 ↔ USER 4 ↔ USER 5 ↔ USER 6

- *By selecting USER 1 to 6, you can recall the stored preset number in "Adjusting the Graphic Equalizer Curve" (page 25) or "Adjusting the Parametric Equalizer Curve" (page 24) .*

Setting the Response Slope for the High Range Speaker (TW SETUP)

Setting the response characteristic of tweeter to FLAT in 2.2ch (3WAY) mode could damage the speaker. Make sure the Crossover cut-off is appropriate for the tweeter being used (see "Adjusting the Crossover Settings" on page 25).

MAKER'S (Initial setting) ↔ USER'S

MAKER'S: As protection from possible speaker damage, FLAT cannot be set for the response slope of the high range speaker in 2.2ch (3WAY) mode.
USER'S: The FLAT setting is possible in 2.2ch (3WAY) mode.

Setting the Filter type

NORMAL (Initial setting) ↔ INDIVIDUAL

NORMAL (L=R): Left and right speakers are adjusted equally.

INDIVIDUAL (L/R): Left and right speakers are individually adjusted.

Turning Media Xpander ON/OFF

When the Media Xpander is on, you can adjust the Media Xpander level (refer to page 24).

MX OFF (Initial setting) ↔ MX ON

Setting the MX Level

MX (MEDIAXPANDER) makes vocals or instruments sound distinct regardless of the music source. The FM radio, CD, USB memory and iPhone/iPod, will be able to reproduce the music clearly even in cars with a lot of road noise.

Changing the source to which you want to apply Media Xpander.

FM (MX level 1 to 3):
The medium to high frequencies become clearer, and produces well balanced sound at all frequencies.

CD (MX level 1 to 3):
CD mode processes a large amount of data during playback. MX takes advantage of this large data quantity to reproduce a more clear, clean output.

CMPM (MX level 1 to 3):
This corrects information that was lost at the time of compression. This reproduces a well-balanced sound close to the original.

DVD (Video CD)
(MOVIE MX level 1 to 2):
The dialogue portion of a video is reproduced more clearly.

(DVD MUSIC):
A DVD or Video CD contains a large quantity of data such as music clip. MX uses this data to reproduce the sound accurately.

AUX (MX level 1):
Choose the MX mode (CMPM, MOVIE, or MUSIC) that corresponds to the media connected.

- *Each music source, such as FM radio, CD, and MP3/WMA/AAC can have its own MX setting.*
- *On disks with both MP3/WMA/AAC and CD-DA, when the source changes from "MP3/WMA/AAC to CD-DA" or "CD-DA to MP3/WMA/AAC", MX-mode switching may delay playback slightly.*
- *Setting to EFFECT OFF sets MX mode of each music source to OFF.*
- *The function is inoperable when DEFEAT is set to ON.*
- *There is no MX mode for AM radio.*
- *If an audio processor with the MX function (PXA-H701, etc.) is connected, its own MX processing is applied to the music source. Since the processor MX settings may not match the head unit, the audio processor needs to be adjusted. For details, refer to the Owner's Manual of the audio processor.*
- *"CMPM" is applied for MP3/WMA/AAC and iPhone/iPod.*

Setting EQ mode

This setting gives you a choice of 5-band parametric, or 7-band graphic equalizer.

PARAMETER EQ (Initial setting) ↔ GRAPHIC EQ

PEQ: 5-band Parametric EQ
GEQ: 7-band Graphic EQ

Setting the Time Correction Unit (T.CORR PARA)

You can change the unit, (cm or inch) of time correction.

CM (Initial setting) ↔ INCH

Sound Field Adjustment (SOUND ADJUST)

The setting of PARAMETER EQ/GRAPHIC EQ, T.CORRECTION and CROSSOVER can be adjusted in this mode.

Adjusting the Parametric Equalizer Curve

You can modify the Equalizer settings to create a response curve more appealing to your personal taste. To adjust the Parametric Equalizer Curve, set the EQ MODE to PARAMETER EQ. For details, refer to "Setting EQ mode" (page 24).

1 After selecting PARAMETER EQ from the SOUND ADJUST mode, press BAND to select the band to be adjusted.

B 1 → B 2 → B 3 → B 4 → B 5 → B 1

2 Press ◀ or ▶ to select frequency bands.
Adjustable frequency bands:
20 Hz to 20 kHz (in 1/3 octave steps)

Band-1: 20 Hz~80 Hz (63 Hz)
Band-2: 50 Hz~200 Hz (150 Hz)
Band-3: 125 Hz~3.2 kHz (400 Hz)
Band-4: 315 Hz~8 kHz (1 kHz)
Band-5: 800 Hz~20 kHz (2.5 kHz)

3 Turn the Rotary encoder to adjust the level.
Adjustable level: -6 to +6 dB

4 Press SOURCE/⏻ to set the bandwidth (Q).
Adjustable bandwidth: 1, 1.5, 3

5 To adjust another band, repeat steps 1 to 4 and adjust all bands.

- *The frequencies of adjacent bands cannot be adjusted within 4 steps.*
- *While adjusting the PARAMETER EQ, you should consider the frequency response of the connected speakers.*

Adjusting the Graphic Equalizer Curve

You can modify the equalizer settings to create a response curve more appealing to your personal taste. To adjust the graphic equalizer curve, set the EQ MODE to GRAPHIC EQ. For details, refer to "Setting EQ mode" (page 24).

1 After selecting GRAPHIC EQ from the SOUND ADJUST mode, press BAND to select the band to be adjusted.

B 1 → B 2 → B 3 → B 4 → B 5 → B 6 → B 7 → B 1

Band-1 (63 Hz) / Band-2 (150 Hz) / Band-3 (400 Hz) / Band-4 (1 kHz) / Band-5 (2.5 kHz) / Band-6 (6.3 kHz) / Band-7 (17.5 kHz)

2 Turn the Rotary encoder to adjust the level.
Adjustable output level: -6 to +6 dB

3 To adjust another band, repeat steps 1 and 2, and then adjust all bands.

Adjusting the Time Correction

Before performing the following procedures, refer to "About Time Correction" (page 27).

1 After selecting T.CORRECTION from the SOUND ADJUST mode, press BAND to select a speaker to be adjusted.

2.2ch (3WAY) System

F-L (Initial setting) (Mid-L) → F-R (Mid-R) → R-L (High-L) → R-R (High-R) → SW-L → SW-R → F-L (Mid-L)

4.2ch (FRONT/REAR/SUBW.) System

F-L (Initial setting) (Front-L) → F-R (Front-R) → R-L (Rear-L) → R-R (Rear-R) → SW-L → SW-R → F-L (Front-L)

2 Turn the Rotary encoder to adjust the distance correction value (0.0 to 336.6cm).

L = (distance to farthest speaker) – (distance to other speakers)

Refer to "Time Correction Value List" on page 27.

3 Repeat steps 1 and 2 to set another speaker.
By setting these values to make its sound reach the listening position at the same time as the sound of other speakers.

Adjusting the Crossover Settings

Before performing the following procedures, refer to "About the Crossover" (page 28).

2.2ch (3WAY) System

1 After selecting CROSSOVER from the SOUND ADJUST mode, press BAND to select the band to be adjusted.

2.2ch (3WAY) System / NORMAL (L=R)

Setting items:
LOW / M-L / M-H / HIGH

2.2ch (3WAY) System / INDIVIDUAL (L/R)

Setting items:
L-L / L-R / ML-L / ML-R / MH-L / MH-R / H-L / H-R

2 Press ◀ or ▶ to select the desired cut-off frequency (Crossover Point).
Adjustable frequency bands:

2.2ch (3WAY) System

Setting items:

LOW / M-L	20 Hz~200 Hz
M-H	20 Hz~20 kHz
HIGH	(1 kHz~20 kHz)*1/(20 Hz~20 kHz)*2

*1 *When MAKER'S is selected, refer to "Setting the Response Slope for the High Range Speaker (TW SETUP)" (page 23).*
*2 *When USER'S is selected, refer to "Setting the Response Slope for the High Range Speaker (TW SETUP)" (page 23).*

3 Press SOURCE/⏻ to adjust the slope.
Adjustable slope: FLAT*, 6 dB/oct., 12 dB/oct., 18 dB/oct., 24 dB/oct.

* *FLAT can be set for the HIGH slope only when USER'S is selected in "Setting the Response Slope for the High Range Speaker (TW SETUP)" (page 23). Depending on the response characteristics of the speaker, care should be taken when setting the response slope to FLAT, as speaker damage may result. With this unit, a message is displayed when the response slope for the high range speaker is set to FLAT.*

4 Turn the Rotary encoder to adjust the output level.
Adjustable output level: -12 to 0 dB.

5 Repeat steps 1 to 4 to make adjustment to the other bands.

4.2ch (FRONT/REAR/SUBW.) System

1 After selecting CROSSOVER from the SOUND ADJUST mode, press BAND to select the band to be adjusted.

4.2ch (FRONT/REAR/SUBW.) System / NORMAL (L=R)

Setting items:
LOW (SUB-W) / MID (REAR) / HIGH (FRONT)

4.2ch (FRONT/REAR/SUBW.) System / INDIVIDUAL (L/R)

Setting items:
L (SUB-W)-L / L (SUB-W)-R / M (REAR)-L / M (REAR)-R / H (FRONT)-L / H (FRONT)-R

2 Press ◄ or ► to select the desired cut-off frequency (Crossover Point).
Adjustable frequency bands:

4.2ch (FRONT/REAR/SUBW.) System

Setting items:
20 Hz~200 Hz

3 Press SOURCE/⏻ to adjust the slope.
Adjustable slope: FLAT, 6 dB/oct., 12 dB/oct., 18 dB/oct., 24 dB/oct.

4 Turn the Rotary encoder to adjust the output level.
Adjustable output level: -12 to 0 dB.

5 Repeat steps 1 to 4 to make adjustment to the other bands.

- *While adjusting the CROSSOVER, you should consider the frequency response of the connected speakers.*
- *About the 2.2ch (3WAY)/4.2ch (FRONT/REAR/SUBW.) system*
  You can switch to 2.2ch (3WAY)/4.2ch (FRONT/REAR/SUBW.) system mode with the 2.2ch (3WAY)/4.2ch (FRONT/REAR/SUBW.) switch on the PXA-H100. For details, refer to the Owner's Manual of PXA-H100.

Storing the Sound Field Adjustment Settings

The SOUND ADJUST Settings containing PARAMETER EQ/ GRAPHIC EQ, T.CORRECTION and CROSSOVER settings can be stored in the preset memory.

1 When the settings of SOUND ADJUST have been completed, select any one of the preset buttons (1 through 6) in any item of the SOUND ADJUST mode (e.g. CROSSOVER), press and hold the desired preset buttons for at least 2 seconds.

2 Turn the Rotary encoder to select PROTECT YES/NO, and then press 🔍/ENT to store the adjusted contents.

PROTECT YES (Initial setting) ↔ PROTECT NO

- *If YES is selected, the adjusted contents are protected and stored into the preset buttons. When you want to store the parameter into a protected preset button, "REPLACE NO/YES" can be selected.*
- *If NO is selected, the preset is stored.*
- *While perform this operation, all adjusted contents of PARAMETER EQ/GRAPHIC EQ, T.CORRECTION and CROSSOVER will be stored in the preset buttons.*
- *The stored contents are not deleted even when resetting the unit or disconnecting the battery.*
- *The stored contents can be recalled by performing operation in "Recalling the Stored Sound Field Adjustment Settings" (page 26).*

Recalling the Stored Sound Field Adjustment Settings

The stored SOUND ADJUST Settings contain PARAMETER EQ/ GRAPHIC EQ, T.CORRECTION and CROSSOVER settings that are stored in the preset memory.

1 After selecting any item of the SOUND ADJUST mode (e.g. CROSSOVER), press any one of the preset buttons (1 through 6) that has your desired characteristic in memory to recall the stored settings.

2 Press the preset buttons again to return to the SOUND ADJUST mode.

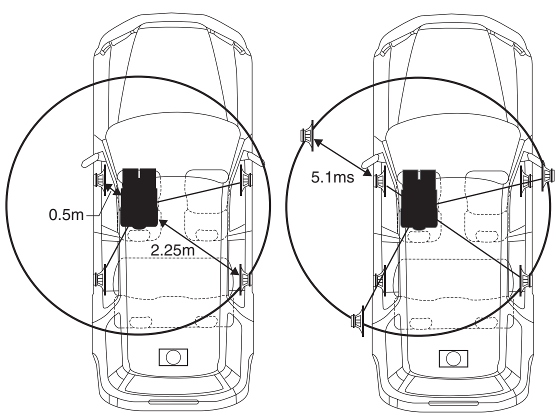
- *While performing this operation, all adjustment contents of PARAMETER EQ/GRAPHIC EQ, T.CORRECTION and CROSSOVER stored in the preset buttons will be recalled.*

About Time Correction

The distance between the listener and the speakers in a car vary widely due to the complex speaker placement. This difference in the distances from the speakers to the listener creates a shift in the sounds image and frequency characteristics. This is caused by the time delay between the sound reaching the listener's right versus the left ear.
To correct this, this unit is able to delay the audio signal to the speakers closest to the listener. This effectively creates a perception of increased distance for those speakers. The listener can be placed at an equal distance between the left and right speakers for optimum staging.
The adjustment will be made for each speaker in 3.4cm steps.

Example 1. Listening Position: Front Left Seat

Adjust the time correction level of the front left speaker to a high value and the rear right to zero or a low value.



The sound is not balanced because the distance between the listening position and the various speakers is different.
The difference in distance between the front left speaker and the rear right speaker is 1.75 m (68-7/8").
Here we calculate the time correction value for the front left speaker in the diagram on the above.

Conditions:
Farthest Speaker – listening position : 2.25 m (88-9/16")
Front left speaker – listening position : 0.5 m (19-11/16")
Calculation: L = 2.25 m – 0.5 m = 1.75 m (68-7/8")
Time correction = 1.75 ÷ 343*[1] × 1000 = 5.1 (ms)

*[1] *Speed of sound: 343 m/s (765 mph) at 20°C*

In other words, giving the front left speaker a time correction value of 5.1 ms makes it seem as if its distance from the listener is the same as the distance to the farthest speaker.

Time correction eliminates the differences in the time required for the sound to reach the listening position.
The time of the front left speaker is corrected by 5.1 ms so that its sound reaches the listening position at the same time as the sound of other speakers.

Example 2. Listening Position: All Seats

Adjust the time correction level of each speaker to almost the same level.

1 **Sit in the listening position (driver's seat, etc.) and measure the distance (in meters) between your head and the various speakers.**

2 **Calculate the difference between the distance correction value to the farthest speaker and the other speakers.**

L = (distance to farthest speaker) – (distance to other speakers)

These values are the time correction values for the different speakers. Setting these values to make each sound reach the listening position at the same time as the sound of other speakers.

Time Correction Value List

Delay Number	Time Difference (ms)	Distance (cm)	Distance (inch)	Delay Number	Time Difference (ms)	Distance (cm)	Distance (inch)
0	0.0	0.0	0.0	51	5.1	173.4	68.3
1	0.1	3.4	1.3	52	5.2	176.8	69.7
2	0.2	6.8	2.7	53	5.3	180.2	71.0
3	0.3	10.2	4.0	54	5.4	183.6	72.4
4	0.4	13.6	5.4	55	5.5	187.0	73.7
5	0.5	17.0	6.7	56	5.6	190.4	75.0
6	0.6	20.4	8.0	57	5.7	193.8	76.4
7	0.7	23.8	9.4	58	5.8	197.2	77.7
8	0.8	27.2	10.7	59	5.9	200.6	79.1
9	0.9	30.6	12.1	60	6.0	204.0	80.4
10	1.0	34.0	13.4	61	6.1	207.4	81.7
11	1.1	37.4	14.7	62	6.2	210.8	83.1
12	1.2	40.8	16.1	63	6.3	214.2	84.4
13	1.3	44.2	17.4	64	6.4	217.6	85.8
14	1.4	47.6	18.8	65	6.5	221.0	87.1
15	1.5	51.0	20.1	66	6.6	224.4	88.4
16	1.6	54.4	21.4	67	6.7	227.8	89.8
17	1.7	57.8	22.8	68	6.8	231.2	91.1
18	1.8	61.2	24.1	69	6.9	234.6	92.5
19	1.9	64.6	25.5	70	7.0	238.0	93.8
20	2.0	68.0	26.8	71	7.1	241.4	95.1
21	2.1	71.4	28.1	72	7.2	244.8	96.5
22	2.2	74.8	29.5	73	7.3	248.2	97.8
23	2.3	78.2	30.8	74	7.4	251.6	99.2
24	2.4	81.6	32.2	75	7.5	255.0	100.5
25	2.5	85.0	33.5	76	7.6	258.4	101.8
26	2.6	88.4	34.8	77	7.7	261.8	103.2
27	2.7	91.8	36.2	78	7.8	265.2	104.5
28	2.8	95.2	37.5	79	7.9	268.6	105.9
29	2.9	98.6	38.9	80	8.0	272.0	107.2
30	3.0	102.0	40.2	81	8.1	275.4	108.5
31	3.1	105.4	41.5	82	8.2	278.8	109.9
32	3.2	108.8	42.9	83	8.3	282.2	111.2
33	3.3	112.2	44.2	84	8.4	285.6	112.6
34	3.4	115.6	45.6	85	8.5	289.0	113.9
35	3.5	119.0	46.9	86	8.6	292.4	115.2
36	3.6	122.4	48.2	87	8.7	295.8	116.6
37	3.7	125.8	49.6	88	8.8	299.2	117.9
38	3.8	129.2	50.9	89	8.9	302.6	119.3
39	3.9	132.6	52.3	90	9.0	306.0	120.6
40	4.0	136.0	53.6	91	9.1	309.4	121.9
41	4.1	139.4	54.9	92	9.2	312.8	123.3
42	4.2	142.8	56.3	93	9.3	316.2	124.6
43	4.3	146.2	57.6	94	9.4	319.6	126.0
44	4.4	149.6	59.0	95	9.5	323.0	127.3
45	4.5	153.0	60.3	96	9.6	326.4	128.6
46	4.6	156.4	61.6	97	9.7	329.8	130.0
47	4.7	159.8	63.0	98	9.8	333.2	131.3
48	4.8	163.2	64.3	99	9.9	336.6	132.7
49	4.9	166.6	65.7				
50	5.0	170.0	67.0				

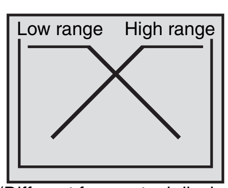
About the Crossover

Crossover (X-OVER):

This unit is equipped with an active crossover. The crossover limits the frequencies delivered to the outputs. Each channel is controlled independently. Thus, each speaker pair can be driven by the frequencies for which they have been optimally designed.
The crossover adjusts the HPF (high pass filter) or LPF (low pass filter) of each band, and also the slope (how fast the filter rolls off the highs or lows).
Adjustments should be made according to the reproduction characteristics of the speakers. Depending on the speakers, a passive network may not be necessary. If you are unsure about this point, consult your authorized Alpine dealer.

4.2ch (FRONT/REAR/SUBW.) mode

	Cut-off frequency (1/3 octave steps)		Slope		Level
	HPF	LPF	HPF	LPF	
Low range speaker	----	20 Hz - 200 Hz	----	FLAT, 6, 12, 18, 24 dB/oct.	0 to -12 dB
Rear high range speaker	20 Hz - 200 Hz	----	FLAT, 6, 12, 18, 24 dB/oct.	----	0 to -12 dB
Front high range speaker	20 Hz - 200 Hz	----	FLAT, 6, 12, 18, 24 dB/oct.	----	0 to -12 dB

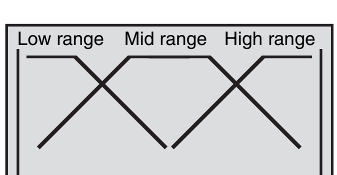


(Different from actual display)

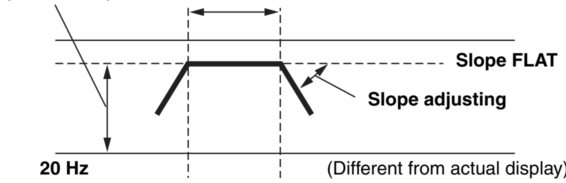
2.2ch (3WAY) mode

	Cut-off frequency (1/3 octave steps)		Slope		Level
	HPF	LPF	HPF	LPF	
Low range speaker	----	20 Hz - 200 Hz	----	FLAT, 6, 12, 18, 24 dB/oct.	0 to -12 dB
Mid range speaker	20 Hz - 200 Hz	20 Hz - 20 kHz	FLAT, 6, 12, 18, 24 dB/oct.	FLAT, 6, 12, 18, 24 dB/oct.	0 to -12 dB
High range speaker	1 kHz - 20 kHz, (20 Hz ~ 20 kHz)*	----	FLAT* 6, 12, 18, 24 dB/oct.	----	0 to -12 dB

* *Only when selecting USER'S in "Setting the Response Slope for the High Range Speaker (TW SETUP)" (page 23).*



(Different from actual display)



(Different from actual display)

- *HPF (high pass filter): Cuts the lower frequencies and allows the higher frequencies to pass.*
- *LPF (low pass filter): Cuts the higher frequencies and allows the lower frequencies to pass.*
- *Slope: The level change (in dB) for a frequency change of one octave.*
- *The higher the slope value, the steeper the slope becomes.*
- *Adjust the slope to FLAT to bypass the HP or LP filters.*
- *Do not use a tweeter without the HPF on or set to a low frequency, as it may cause damage to the speaker due to the low frequency content.*
- *You cannot adjust the crossover frequency higher than the HPF or lower than the LPF.*
- *Adjustment should be made according to the recommended crossover frequency of the connected speakers. Determine the recommended crossover frequency of the speakers. Adjusting to a frequency range outside that recommended may cause damage to the speakers.*
  For the recommended crossover frequencies of Alpine speakers, refer to the respective Owner's Manual.
  We are not responsible for damage or malfunction of speakers caused by using the crossover outside the recommended value.

About IMPRINT

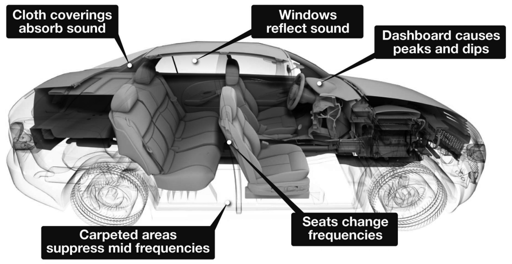
Alpine introduces IMPRINT - the world's first technology that thoroughly eliminates in-car acoustic problems that normally degrade sound quality, which enables us to experience music the way the artist intended.

VISION VS. REALITY

All good music starts as an artist's vision. After countless hours of rehearsing, recording and mixing, that vision is ready for us to hear on discs, radio and other media. But do we hear it as the artist created it? Unfortunately, the reality is that we are almost never able to listen to it in the exact way the artist intended. Especially when we are listening in a car.

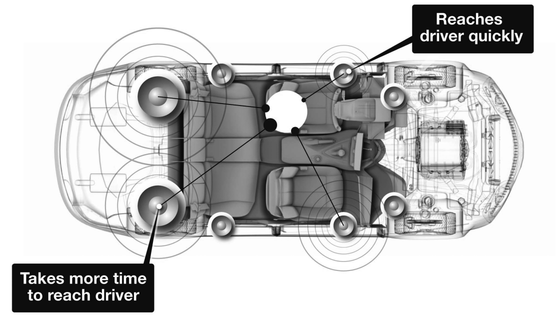
CARS ARE TERRIBLE LISTENING SPACES

Car interiors are full of materials that obstruct and degrade sound quality. For example, windows amplify and reflect high frequencies. Seat and dashboard coverings change certain frequencies. Carpets absorb and suppress mid frequencies. Graphic and parametric EQs are only partial remedies for these problems. In addition, the speakers are not located at equal distances from listeners, creating an unbalanced, uncentred sound stage. Time correction can help fix this, but only for one listening position.



INTRODUCING IMPRINT

These acoustical problems are so severe that no correction system has been able to overcome them. Until now, with the introduction of IMPRINT, Alpine provides a hardware/software combination that not only solves these problems, it actually improves the sound stage, tonal balance and definition - and does it automatically, in a matter of minutes!

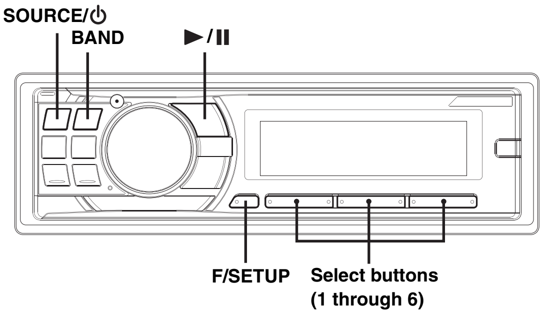


HOW IMPRINT IS DIFFERENT

IMPRINT using MultEQ is superior to other equalization systems in five ways.

- It is the only system that measures the entire listening area, capturing time domain information from each listening location and applying a proprietary method for processing it to represent all seat locations. This gives the people in each seat the optimal listening experience.
- It corrects both time and frequency problems, for an improved soundstage and smoother, more natural sound.
- It uses dynamic frequency allocation to apply hundreds of points of correction to those areas where the sound problems are greatest.
- It determines optimized blending points for low frequency crossovers.
- It provides, in minutes, vehicle sound tuning that generally takes skilled professionals days to accomplish.

Changer (Optional)



Controlling CD Changer (Optional)

An optional 6-disc or 12-disc CD Changer may be connected to this unit if it is Ai-NET compatible. With a CD Changer connected to the Ai-NET input of this unit, the CD Changer will be controllable from this unit.
Using the KCA-400C (Multi-Changer Switching device) or the KCA-410C (Versatile Link Terminal) multiple changers can be controlled by this unit.
See "Multi-Changer Selection (Optional)" on page 30 for selecting the CD Changers.

- *The controls on this unit for CD Changer operation are operative only when a CD Changer is connected.*
- *The DVD changer (optional) is controllable from this unit as well as the CD changer.*

1 Press SOURCE/⏻ to activate the CHANGER mode.

- *The source indicator varies depending on the connected source.*
- *Press **BAND** to switch the Disc mode in the Changer mode.*

2 Press F/SETUP to activate Disc Select mode.

Disc Select Mode (Disc No.1~6) → Disc Select Mode * (Disc No.7~12) → RPT/M.I.X. Mode → Disc Select Mode (Disc No.1~6)

3 Press the disc select buttons (1 through 6) corresponding to one of the discs loaded in the CD Changer.
The selected disc number appears in the display and CD/MP3 playback starts.

- *After selecting the desired disc, you can operate in the same way as for the CD player of this unit. For details, see the CD/MP3/WMA/AAC section.*

* *When a 12-disc CD changer is connected.*

Playing MP3 Files with the CD Changer (Optional)

If you connect a changer compatible with MP3, you can play CD-ROMs, CD-Rs, and CD-RWs containing MP3 files on this unit.

1 Press SOURCE/⏻ to switch to the MP3 Changer mode.

2 Press any one of the disc select buttons (1 through 6) corresponding to one of the discs loaded in the CD Changer.

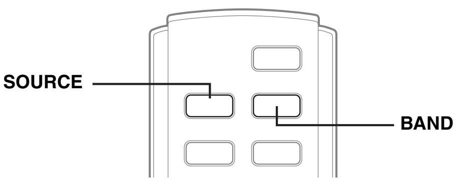
3 To pause playback, press ▶/❚❚ .
Pressing ▶/❚❚ again will resume playback.

- *The unit can play discs containing both audio data and MP3 data.*
- *For operating MP3 with an MP3 compatible CD Changer, refer to "CD/MP3/WMA/AAC" pages 8 to 11.*

Multi-Changer Selection (Optional)

Alpine's Ai-NET system will support up to 6 CD Changers. When operating two or more changers, the KCA-400C (Multi-Changer Switching device) must be used. If you use 1 Switching device, you can connect up to 4 CD Changers. If you use 2 Switching devices, you can connect up to 6 CD Changers. When using KCA-410C (Versatile Link Terminal), you can connect two changers and two external outputs (AUX).

1 Press SOURCE/⏻ on this unit to activate the CD Changer mode.
Alternatively, press SOURCE on the remote control (RUE-4202) to activate the CD Changer mode.



2 Press BAND on this unit or the RUE-4202 to activate the CD Changer Selection mode.
The CD Changer Selection mode remains active for a few seconds.

3 Press BAND until the desired CD Changer indicator appears on the display.
Alternatively press BAND on the Remote Control until the desired changer indicator appears on the display.

- *If the selected CD Changer is not connected, the display will show "NO CHANGER-(No.)".*
- *To operate the selected changer, see "CD/MP3/WMA/AAC" (pages 8 to 11).*
- *For further details about the external input (AUX) when using KCA-410C, see "Setting the AUX Mode (V-Link)" on page 17.*

Information

In Case of Difficulty

If you encounter a problem, turn the power off, then on again. If the unit is still not functioning normally, review the items in the following checklist. This guide will help you isolate the problem if the unit is at fault. Otherwise, make sure the rest of your system is properly connected or consult your authorized Alpine dealer.

Basic

No function or display.
- Vehicle's ignition is off.
  - If connected following instructions, the unit will not operate with the vehicle's ignition off.
- Improper power lead (Red) and battery lead (Yellow) connections.
  - Check power lead and battery lead connections.
- Blown fuse.
  - Check the fuse of the unit; replace with the proper value if necessary.
- Internal micro-computer malfunctioned due to interference noise etc.
  - Press the RESET switch with a ballpoint pen or other pointed article.

Radio

Unable to receive stations.
- No antenna or open connection in cable.
  - Make sure the antenna is properly connected; replace the antenna or cable if necessary.

Unable to tune stations in the seek mode.
- You are in a weak signal area.
  - Make sure the tuner is in the DX mode.
- If the area you are in is a primary signal area, the antenna may not be grounded and connected properly.
  - Check your antenna connections; make sure the antenna is properly grounded at its mounting location.
- The antenna may not be the proper length.
  - Make sure the antenna is fully extended; if broken, replace the antenna with a new one.

Broadcast is noisy.
- The antenna is not the proper length.
  - Extend the antenna fully; replace it if it is broken.
- The antenna is poorly grounded.
  - Make sure the antenna is grounded properly at its mounting location.

CD

CD Player/Changer not functioning.
- Out of operating temperature range +50°C (+120°F) for CD.
  - Allow the vehicle's interior (or trunk) temperature to cool.

CD playback sound is wavering.
- Moisture condensation in the CD Module.
  - Allow enough time for the condensation to evaporate (about 1 hour).

CD insertion not possible.
- A CD is already in the CD player.
  - Eject the CD and remove it.
- The CD is being improperly inserted.
  - Make sure the CD is being inserted following instructions in the CD Player Operation section.

Unable to fast forward or backward the CD.
- The CD has been damaged.
  - Eject the CD and discard it; using a damaged CD in your unit can cause damage to the mechanism.

CD playback sound skips due to vibration.
- Improper mounting of the unit.
  - Securely re-mount the unit.
- The disc is very dirty.
  - Clean the disc.
- The disc has scratches.
  - Change the disc.
- The pick-up lens is dirty.
  - Do not use a commercially available lens cleaner disc. Consult your nearest Alpine dealer.

CD playback sound skips without vibration.
- The disc is dirty or scratched.
  - Clean the disc; damaged disc should be replaced.

Error displays (built-in CD player only).
- Mechanical error.
  - Press ⏏. After the error indication disappears, insert the disc again. If the above-mentioned solution does not solve the problem, consult your nearest Alpine dealer.

CD-R/CD-RW playback not possible.
- Close session (finalization) has not been performed.
  - Perform finalization and attempt playback again.

MP3/WMA/AAC

MP3, WMA or AAC is not played back.
- Writing error occurred. The CD format is not compatible.
  - Make sure the CD has been written in a supported format. Refer to "About MP3/WMA/AAC" (pages 10-11), then rewrite in the format supported by this device.

Audio

The sound is not output from the speakers.
- Unit has no output signal of the internal amplifier.
  - POWER IC is switched to "ON" (page 16).

iPod

iPod does not play and no sound is output.
- The iPod has not been recognized.
  - Reset this unit and the iPod. Refer to "Initial System Start-Up" (page 6). To reset the iPod, refer to the Owner's Manual of the iPod.

Indication for CD Player

NO DISC

- No CD is inserted.
  - Insert a CD.
- Although a disc is inserted, “NO DISC” is displayed and the unit does not start to play or eject the disc.
  - Remove the disc by following these steps:
    Press the ⏏ button again for at least 2 seconds.
    If the disc still does not eject, consult your Alpine dealer.

ERROR

- Mechanism error.
  1) Press the ⏏ button and eject the CD.
     If not ejecting, consult your Alpine dealer.
  2) When the error indication remains after ejecting, press the ⏏ button again.
     If the error indication still does not turn off after pressing the ⏏ button for a few times, consult your Alpine dealer.

- *When “ERROR” is displayed:*
  If the disc cannot be ejected by pressing ⏏, press the RESET switch (refer to page 6) and press ⏏ again.
  If the disc still cannot be ejected, consult your Alpine dealer.

PROTECT

- A copy-protected WMA file was played back.
  - You can only play back non-copy-protected files.

UNSUPPORTED

- A sampling rate/bit rate not supported by the unit is used.
  - Use a sampling rate/bit rate that is supported by the unit.

Indication for CD Changer

HIGH-TEMP

- Protective circuit is activated due to high temperature.
  - The indication will disappear when the temperature returns to normal operating range.

ERROR-01

- Malfunction in the CD Changer.
  - Consult your Alpine dealer. Press the magazine eject button and pull out the magazine.
    Check the indication. Insert the magazine again.
    If the magazine cannot be pulled out, consult your Alpine dealer.
- Magazine ejection not possible.
  - Press the magazine eject button. If the magazine does not eject, consult your Alpine dealer.

ERROR-02

- A disc is left inside the CD Changer.
  - Press the eject button to activate the eject function. When the CD Changer finishes the eject function, insert an empty CD magazine into the CD Changer to receive the disc left inside the CD Changer.

NO MAGAZINE

- No magazine is loaded into the CD Changer.
  - Insert a magazine.

NO DISC

- No indicated disc.
  - Choose another disc.

Indication for USB memory

ERROR

- Communication error.
  - Turn the ignition key off, and then set to ON again.

CURRENT ERROR

- Abnormal current is run to the USB connector device.
  - You can solve the problem by switching the source, turning the unit power off, or ACC to the OFF position.

DEVICE ERROR

- A USB device that is not supported by the unit is connected.
  - Connect a USB device that is supported by the unit.

NO USB UNIT

- A USB memory is not connected.
  - Make sure the USB memory device is correctly connected and the cable is not excessively bent.

NO FILE

- No song (file) is stored in the USB memory.
  - Connect the USB memory device after storing songs (files).

UNSUPPORTED

- A sampling rate/bit rate not supported by the unit is used.
  - Use a sampling rate/bit rate that is supported by the unit.

PROTECT

- A copy-protected WMA file was played back.
  - You can only play back non-copy-protected files.

Indication for iPod Mode

NO USB UNIT

- The iPhone/iPod is not connected.
  - Make sure the iPhone/iPod is correctly connected (refer to "Connections" on page 37).
    Make sure the cable is not bent excessively.

NO SONG

- There are no songs in the iPhone/iPod.
  - Download songs to the iPhone/iPod and connect to this unit.

ERROR-01

- Communication error.
  - Turn the ignition key off, and then set to ON again.
  - Reset the iPod.
  - Check the display by reconnecting between the iPhone/iPod and this unit, using the iPhone/iPod cable.

ERROR-02

- Caused by the iPhone/iPod Software Version not being compatible with this unit.
  - Update the iPhone/iPod Software Version to be compatible with this unit.

ERROR-03

- The iPhone/iPod is not verified.
  - Change another iPhone/iPod.

CURRENT ERROR

- Abnormal current is run to the USB connector device.
  - You can solve the problem by switching the source, turning the unit power off, or ACC to the OFF position.

DEVICE ERROR

- A USB device that is not supported by the unit is connected.
  - Connect a USB device that is supported by the unit.

Indication for all Modes

DC ERROR

- Malfunction occurred as a result of the speaker cable shorting on the car chassis.
  - Route the cable correctly, and set POWER IC to ON (page 16).
    If the above solution does not work, consult your nearest dealer.

Specifications

FM TUNER SECTION

Tuning Range	87.5-108.0 MHz
Mono Usable Sensitivity	9.3 dBf (0.8 µV/75 ohms)
50 dB Quieting Sensitivity	13.5 dBf (1.3 µV/75 ohms)
Alternate Channel Selectivity	80 dB
Signal-to-Noise Ratio	65 dB
Stereo Separation	35 dB
Capture Ratio	2.0 dB

AM TUNER SECTION

Tuning Range	531-1,602 kHz
Sensitivity (IEC Standard)	22.5 µV/27 dB

CD PLAYER SECTION

Frequency Response	5-20,000 Hz (±1 dB)
Wow & Flutter (% WRMS)	Below measurable limits
Total Harmonic Distortion	0.008% (at 1 kHz)
Dynamic Range	95 dB (at 1 kHz)
Signal-to-Noise Ratio	105 dB
Channel Separation	85 dB (at 1 kHz)

USB SECTION

USB requirements	USB 1.1/2.0
Max. Power Consumption	500 mA
USB Class	Mass Storage
File System	FAT 12/16/32
MP3 Decoding	MPEG-1/2 AUDIO Layer-3
WMA Decoding	Windows Media™ Audio
AAC Decoding	AAC-LC format ".m4a" file
Number of Channels	2-Channel (Stereo)
Frequency Response*	5-20,000 Hz (±1 dB)
Total Harmonic Distortion	0.008% (at 1 kHz)
Dynamic Range	95 dB (at 1 kHz)
Signal-to-Noise Ratio	105 dB
Channel Separation	85 dB (at 1 kHz)

* *Frequency response may differ depending on the encoder software/bit rate.*

PICKUP

Wave length	795 nm
Laser power	CLASS I

GENERAL

Power Requirement	14.4 V DC (11-16 V allowable)
Maximum Power Output	50 W × 4
Maximum Pre-Output Voltage	2 V/10 k ohms
Bass	±14 dB at 100 Hz
Treble	±14 dB at 10 kHz
Weight	1.5 kg (3 lbs. 4 oz)

CHASSIS SIZE

Width	178 mm (7)
Height	50 mm (2")
Depth	160 mm (6-1/4")

NOSEPIECE SIZE

Width	170 mm (6-3/4")
Height	46 mm (1-13/16")
Depth	24 mm (15/16")

- *Due to continuous product improvement, specifications and design are subject to change without notice.*

Installation and Connections

Before installing or connecting the unit, please read the following and pages 3 to 5 of this manual thoroughly for proper use.

⚠ Warning

MAKE THE CORRECT CONNECTIONS.

Failure to make the proper connections may result in fire or product damage.

USE ONLY IN CARS WITH A 12 VOLT NEGATIVE GROUND.

(Check with your dealer if you are not sure.) Failure to do so may result in fire, etc.

BEFORE WIRING, DISCONNECT THE CABLE FROM THE NEGATIVE BATTERY TERMINAL.

Failure to do so may result in electric shock or injury due to electrical shorts.

DO NOT SPLICE INTO ELECTRICAL CABLES.

Never cut away cable insulation to supply power to other equipment. Doing so will exceed the current carrying capacity of the wire and result in fire or electric shock.

DO NOT DAMAGE PIPE OR WIRING WHEN DRILLING HOLES.

When drilling holes in the chassis for installation, take precautions so as not to contact, damage or obstruct pipes, fuel lines, tanks or electrical wiring. Failure to take such precautions may result in fire.

DO NOT USE BOLTS OR NUTS IN THE BRAKE OR STEERING SYSTEMS TO MAKE GROUND CONNECTIONS.

Bolts or nuts used for the brake or steering systems (or any other safety-related system), or tanks should NEVER be used for installations or ground connections. Using such parts could disable control of the vehicle and cause fire etc.

KEEP SMALL OBJECTS SUCH AS BATTERIES OUT OF THE REACH OF CHILDREN.

Swallowing them may result in serious injury. If swallowed, consult a physician immediately.

DO NOT INSTALL IN LOCATIONS WHICH MIGHT HINDER VEHICLE OPERATION, SUCH AS THE STEERING WHEEL OR SHIFT LEVER.

Doing so may obstruct forward vision or hamper movement etc. and results in serious accident.

DO NOT ALLOW CABLES TO BECOME ENTANGLED IN SURROUNDING OBJECTS.

Arrange wiring and cables in compliance with the manual to prevent obstructions when driving. Cables or wiring that obstruct or hang up on places such as the steering wheel, shift lever, brake pedals, etc. can be extremely hazardous.

⚠ Caution

HAVE THE WIRING AND INSTALLATION DONE BY EXPERTS.

The wiring and installation of this unit requires special technical skill and experience. To ensure safety, always contact the dealer where you purchased this product to have the work done.

USE SPECIFIED ACCESSORY PARTS AND INSTALL THEM SECURELY.

Be sure to use only the specified accessory parts. Use of other than designated parts may damage this unit internally or may not securely install the unit in place. This may cause parts to become loose resulting in hazards or product failure.

ARRANGE THE WIRING SO IT IS NOT CRIMPED OR PINCHED BY A SHARP METAL EDGE.

Route the cables and wiring away from moving parts (like the seat rails) or sharp or pointed edges. This will prevent crimping and damage to the wiring. If wiring passes through a hole in metal, use a rubber grommet to prevent the wire's insulation from being cut by the metal edge of the hole.

DO NOT INSTALL IN LOCATIONS WITH HIGH MOISTURE OR DUST.

Avoid installing the unit in locations with high incidence of moisture or dust. Moisture or dust that penetrates into this unit may result in product failure.

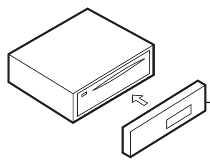
Precautions

- Be sure to disconnect the cable from the (–) battery post before installing your CDA-105E. This will reduce any chance of damage to the unit in case of a short-circuit.
- Be sure to connect the colour coded leads according to the diagram. Incorrect connections may cause the unit to malfunction or damage to the vehicle's electrical system.
- When making connections to the vehicle's electrical system, be aware of the factory installed components (e.g. on-board computer). Do not tap into these leads to provide power for this unit. When connecting the CDA-105E to the fuse box, make sure the fuse for the intended circuit of the CDA-105E has the appropriate amperage. Failure to do so may result in damage to the unit and/or the vehicle. When in doubt, consult your Alpine dealer.
- The CDA-105E uses female RCA-type jacks for connection to other units (e.g. amplifier) having RCA connectors. You may need an adaptor to connect other units. If so, please contact your authorized Alpine dealer for assistance.
- Be sure to connect the speaker (–) leads to the speaker (–) terminal. Never connect left and right channel speaker cables to each other or to the vehicle body.

IMPORTANT
Please record the serial number of your unit in the space provided below and keep it as a permanent record. The serial number or the engraved serial number is located on the bottom of the unit.

SERIAL NUMBER: ____________
INSTALLATION DATE: ____________
INSTALLATION TECHNICIAN: ____________
PLACE OF PURCHASE: ____________

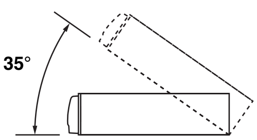
Installation



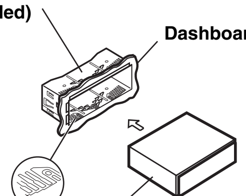
Caution

When you install this unit in your car, do not remove the detachable front panel.
If the detachable front panel is removed during installation, you might press too hard and warp the metal plate that holds it in place.

- *The main unit must be mounted within 35 degrees of the horizontal plane, back to front.*



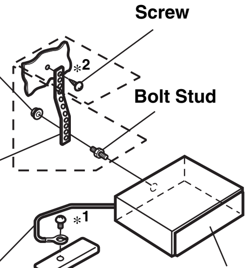
1



* *If the installed mounting sleeve is loose in the dashboard, the pressure plates may be bent slightly to remedy the problem.*

Remove the mounting sleeve from the main unit (see "Removal" on page 35).

2



Reinforce the head unit with the metal mounting strap (not supplied). Secure the ground lead of the unit to a clean metal spot using a screw (*1) already attached to the vehicle's chassis.

- *For the screw marked "*2", use an appropriate screw for the chosen mounting location.*

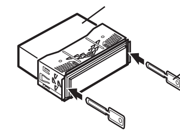
Connect each input lead coming from an amplifier or equalizer to the corresponding output lead coming from the left rear of the CDA-105E. Connect all other leads of the CDA-105E according to details described in the CONNECTIONS section.

3

Slide the CDA-105E into the dashboard until it clicks. This ensures that the unit is properly locked and will not accidentally come out from the dashboard.

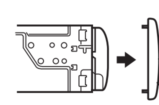
Removal

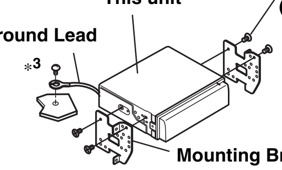
1. Remove the detachable front panel.
2. Insert the bracket keys into the unit, along the guides on either side. The unit can now be removed from the mounting sleeve.



3. Pull the unit out, keeping it unlocked as you do so.

<JAPANESE CAR>

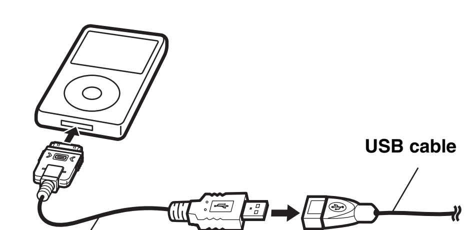




- *Secure the ground lead of the unit to a clean metal spot using a screw (*3) already attached to the vehicle's chassis.*

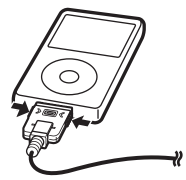
iPhone/iPod Connection (sold separately)

Connect USB cable to an iPhone/iPod with Interface cable for iPod (KCU-440i, sold separately).



Remove the iPhone/iPod

Remove the iPhone/iPod from Interface cable for iPod (KCU-440i, sold separately).

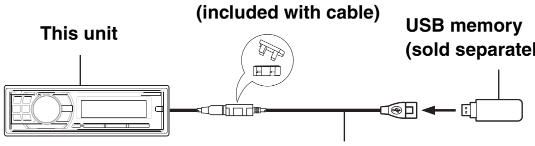


- *After changing the unit to a source other than the USB iPod, remove the iPhone/iPod. If the iPhone/iPod is removed in the USB iPod mode, data may cause damage.*
- *If sound is not output or the iPhone/iPod is not recognised even when the iPhone/iPod is connected, remove the iPhone/iPod once, then connect it again, or reset the iPod.*
- *Do not leave the iPhone/iPod in a vehicle for a long time. Heat and humidity may damage the iPhone/iPod and you may not be able to play it again.*

USB memory Connection (sold separately)

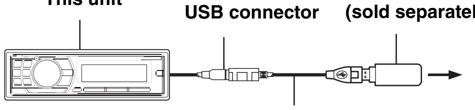
Connect USB memory

Connect USB memory to USB cable.



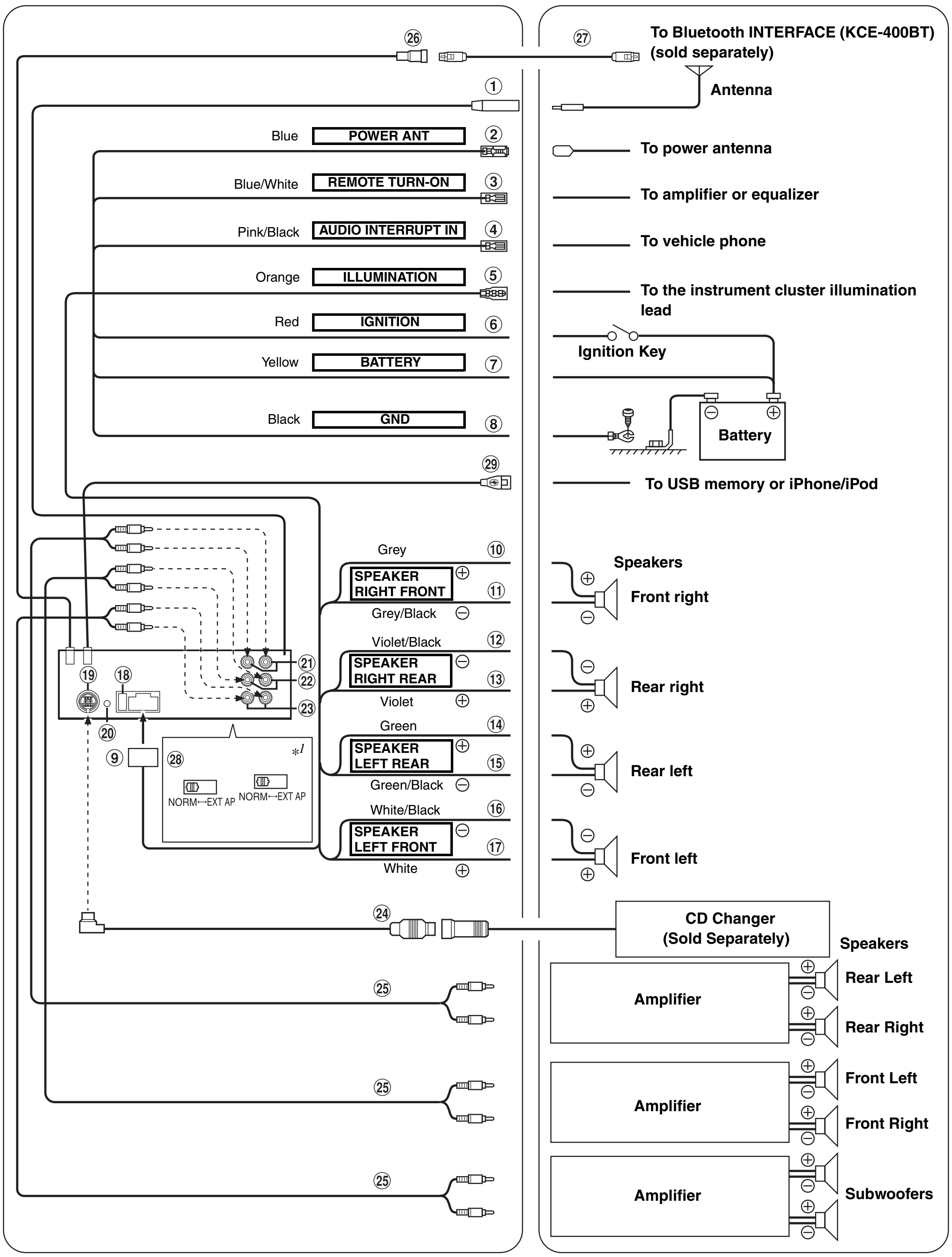
Remove USB memory

Pull out USB memory squarely from the USB cable.



- *When removing USB memory, pull it out straight.*
- *If sound is not output or USB memory is not recognized even when USB memory is connected, remove USB memory once, then connect it again.*
- *Change to a source other than the USB memory mode, then remove the USB memory. If the USB memory is removed in the USB memory mode, data may be damaged.*
- *Route the USB cable away from another cables, etc.*

Connections



*1 The system switch is located on the bottom of the unit.

① **Antenna Receptacle**

② **Power Antenna Lead (Blue)**
Connect this lead to the +B terminal of your power antenna, if applicable.

- *This lead should be used only for controlling the vehicle's power antenna. Do not use this lead to turn on an amplifier, or a signal processor, etc.*

③ **Remote Turn-On Lead (Blue/White)**
Connect this lead to the remote turn-on lead of your amplifier or signal processor. When an IMPRINT audio processor PXA-H100 (sold separately) is connected, use the Remote Turn-on lead of PXA-H100 to connect to your amplifier or signal processor. For details, refer to the Owner's Manual of PXA-H100.

④ **Audio Interrupt In Lead (Pink/Black)**
Connect this lead to the Audio interface output of a cellular phone which provides ground shorting when a call is received.

⑤ **Illumination Lead (Orange)**
This lead may be connected to the vehicle's instrument cluster illumination lead. This will allow the backlighting of the CDA-105E to dim whenever the vehicle's lights are turned on.

⑥ **Switched Power Lead (Ignition) (Red)**
Connect this lead to an open terminal on the vehicle's fuse box or another unused power source which provides (+)12V only when the ignition is turned on or in the accessory position.

⑦ **Battery Lead (Yellow)**
Connect this lead to the positive (+) post of the vehicle's battery.

⑧ **Ground Lead (Black)**
Connect this lead to a good chassis ground on the vehicle. Make sure the connection is made to bare metal and is securely fastened using the sheet metal screw provided.

⑨ **Power Supply Connector**

⑩ **Right Front (+) Speaker Output Lead (Grey)**

⑪ **Right Front (–) Speaker Output Lead (Grey/Black)**

⑫ **Right Rear (–) Speaker Output Lead (Violet/Black)**

⑬ **Right Rear (+) Speaker Output Lead (Violet)**

⑭ **Left Rear (+) Speaker Output Lead (Green)**

⑮ **Left Rear (–) Speaker Output Lead (Green/Black)**

⑯ **Left Front (–) Speaker Output Lead (White/Black)**

⑰ **Left Front (+) Speaker Output Lead (White)**

⑱ **Fuse Holder (10A)**

⑲ **Ai-NET Connector**
Connect this to the output or input connector of another device (CD Changer, IMPRINT audio processor, Equalizer, etc.) equipped with Ai-NET.

- *Interface adapter for iPod (KCA-420i) is not recommended for use with this product.*
- *You can input TV/video sound by connecting an optional Ai-NET/RCA Interface cable (KCA-121B) to this component.*
- *Be sure to set "Setting the Connected Head Unit (MODEL SETUP)" to "CD CHG", when the DHA-S690 is connected.*

⑳ **Steering Remote Control Interface Connector**
To steering Remote control interface box.

㉑ **Rear Output/Input RCA Connectors**
It can be used as Rear Output or Input RCA Connectors. RED is right and WHITE is left.

㉒ **Front Output/Input RCA Connectors**
It can be used as Front Output or Input RCA Connectors. RED is right and WHITE is left.

㉓ **Subwoofer RCA Connectors**
RED is right and WHITE is left.

㉔ **Ai-NET Cable (Included with CD Changer)**

㉕ **RCA Extension Cable (sold separately)**

㉖ **Bluetooth I/F Connector**
Connect this to an optional Bluetooth INTERFACE (KCE-400BT).
To use a hands-free mobile phone, an optional Bluetooth INTERFACE (KCE-400BT) connection is required. For details on connection, refer to the Owner's Manual of the Bluetooth INTERFACE (KCE-400BT). You can also connect this to an external device (such as a portable player) by using conversion cable (KCE-237B) (sold separately) for building up the AUX IN.

* *Refer to "Setting the AUX+ SETUP Mode" (page 17).*

AUX+ ON : When the external device is connected.
AUX+ OFF : When set to OFF, AUX+ source cannot be selected.

㉗ **KCE-400BT Connection Cable (included with KCE-400BT)**

㉘ **System Switch**
When connecting a processor or divider using Ai-NET, place the two switches in the EXT AP position. When no device is connected, leave the switch in the NORM position.

- *Do not make the two switches to different settings.*
- *Be sure to turn the power off to the unit before changing the switch position.*

㉙ **USB Connector**
Connect this to an USB memory or to an iPhone/iPod. To use an iPhone/iPod, Interface cable for iPod connection is required.

- *Route the USB cable away from other cables.*

To prevent external noise from entering the audio system.
- Locate the unit and route the leads at least 10 cm away from the car harness.
- Keep the battery power leads as far away from other leads as possible.
- Connect the ground lead securely to a bare metal spot (remove any paint, dirt or grease if necessary) of the car chassis.
- If you add an optional noise suppressor, connect it as far away from the unit as possible. Your Alpine dealer carries various noise suppressors, contact them for further information.
- Your Alpine dealer knows best about noise prevention measures so consult your dealer for further information.

目錄

操作說明

警告

準備工作

無線電

CD/MP3/WMA/AAC

聲音設定

其他功能

設定

BLUETOOTH IN

顯示自訂

MP3/WMA/AAC

外接裝置

USB 記憶裝置（選購）

iPhone/iPod（選購）

IMPRINT 操作方式 （選購）

換碟機 （選購）

資訊

安裝和連接

操作說明

警告

⚠警告

此標誌表示重要說明。如果未能注意可能會造成人員嚴重受傷或死亡。

不要使用會使您駕駛時分心的任何功能。
任何影響注意力的機器功能的操作都要等完全停住汽車之後才作。要使用這些操作功能時，一定請先把車輛停放在安全地帶。否則，將可能導致意外事故。

駕駛中必須保持音量水平使還能聽到車外的噪聲。
如果音量太大造成緊急車輛的警報聲和道路警告訊號（火車交叉口等）聽不清是危險的，並可能導致意外事故。另外，在汽車里用大音量收聽還可能導致聽力遭受傷害。

駕駛中盡可能少看顯示器。
看顯示器，可能分散駕駛員注視汽車前方的注意力而導致意外事故。

不要分解或改造。
否則，可能導致意外事故、火災或觸電。

僅用於 12 伏負極 （－）接地的汽車。
（如果您無法確定，請向您的代理商確認。）否則可能會造成火災或電擊。

不要讓兒童觸及像電池這樣的小物體。
呑下小物體會引起嚴重的傷害。如果誤呑，請立即請醫生診治。

更換保險絲時須選用規定安培値的保險絲。
否則可能引起火災或觸電。

不要堵塞住通風孔或散熱板。
否則，可能導致內部積熱並可能導致火災。

本產品請應用於 12V 型式的汽車。
應用在別型汽車，可能導致火災、觸電或其它傷害。

別把手、手指或雜物放到插縫或間隙中。
否則，可能使個人遭受傷害或損壞了產品。

⚠注意

此標誌表示重要說明。如果未能注意可能會造成人員受傷或設備損壞。

發生問題時，請立即停止使用。
否則，可能使個人受傷害或損壞了產品。請將本產品送回到指定的 Alpine 代銷店或附近的 Alpine 服務中心修理。

⚠使用須知

產品清潔
請使用乾的軟布定期清潔本產品。若污物較難清除，請僅用水將軟布浸濕。其他任何溶劑都可能溶解油漆或損壞塑料。

溫度
開啓本機之前，請確保汽車中的溫度在 +60°C 和 –10°C 之間。

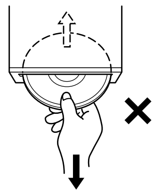
濕氣凝結
由於濕氣凝結，您可能發現 CD 播放聲音在顫抖。若發生此類情況，請將光碟從播放器中取出，並等待一小時左右使濕氣蒸發。

損壞的光碟
請勿試圖播放有裂痕的、變形的或損壞的光碟。播放已損壞的光碟會嚴重損壞播放裝置。

維修
如果您遇到問題，請勿自行修理。請將本產品送回到 Alpine 經銷商或附近的 Alpine 服務中心修理。

禁止事項

當自動載片裝置將光碟載入播放器時，請勿捏住或拉出光碟。
當本機電源關閉時，請勿試圖插入光碟。

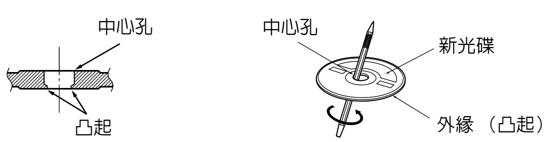


插入光碟

您的播放器一次只能載入一張光碟以供播放。請勿試圖放入多張光碟。
插入光碟時，請確保標籤面朝上。如果沒有正確裝入光碟，則播放器會顯示 "ERROR"。即使正確裝入了光碟，如果仍繼續顯示 "ERROR"，則用尖頭物體，如原子筆等，按 RESET 開關。
當您行駛在十分顛簸的路段上時，播放光碟會有跳音現象，但這不會劃傷光碟或損壞播放器。

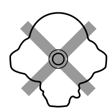
新光碟

為防止 CD 卡住，如果裝入了表面不平整的光碟或未正確裝入光碟，則會顯示 "ERROR"。新光碟裝入播放器後立即彈出時，請用手指在中心孔內和光碟外緣感覺一下。如果您感到有小的凸起部分或不平整，這是阻礙光碟正確裝載的原因。若要消除這些小的凸起部分，請用原子筆或類似器具摩擦圓孔內緣和光碟的外緣，然後再裝入光碟。



形狀不規則的光碟

請在本機上僅使用圓形光碟，切勿使用特殊形狀的光碟。
特殊形狀的光碟可能會損壞播放器。



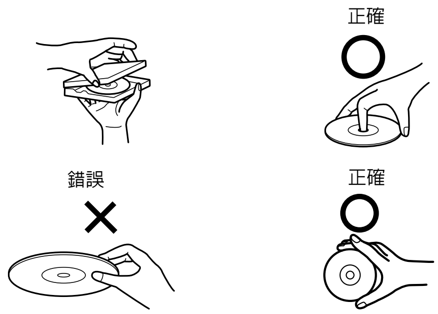
安裝位置

本機不可安裝於下列任何場所：

- 陽光直射和熱源附近
- 濕度很高的地方和水源附近
- 多塵場所
- 劇烈振動的場所

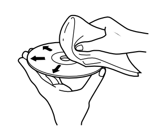
正確使用

使用時請勿掉落光碟。持握光碟時請勿將指印留在光碟表面。請勿將膠帶、紙張或涂膠標籤黏貼在光碟上。請勿在光碟上寫字。



清潔光碟

光碟表面的指印、灰塵或污垢會使 CD 播放器產生跳音。日常清潔時，請用潔淨軟布自中心向外緣擦拭播放面。如果光碟表面很髒，清潔前請先用潔淨軟布沾少許溫和的中性清潔劑。



光碟附件

市面上有各種保護光碟表面、改善音質的附件出售。但是它們中的大部分會改變光碟的厚度和 / 或直徑。使用這些附件會使光碟不符合標準規格從而引起操作問題。我們建議您不要在 Alpine CD 播放器的光碟上使用這些附件。



關於使用光碟 （CD/CD-R/CD-RW）

- 請勿觸摸表面。
- 請勿將光碟放在直射陽光下。
- 請勿黏貼貼紙或標籤。
- 光碟積塵時請清潔光碟。
- 確保光碟周圍沒有凸起。
- 請勿使用市售的光碟附件。

請勿長時間將光碟留在車內或本機內。切勿將光碟放在直射陽光下。熱氣和濕氣可能會損壞 CD，您可能再也無法播放該 CD。

致使用 CD-R/CD-RW 的顧客

- 如果無法播放 CD-R/CD-RW，請確認最終錄製部分已完成（最終化）。
- 若必要請將 CD-R/CD-RW 最終化，再試圖播放。

關於可播放的媒體

請僅使用標籤面標有以下 CD 圖標標誌的光碟。

如果使用非指定的光碟，則無法保證正常播放。
您可以播放只在音訊設備上錄製的 CD-R （可錄 CD） /CD-RW（可重寫 CD）。您也可以播放含有 MP3/WMA/AAC 格式的音訊檔案的 CD-R/CD-RW。

- 下列某些 CD 可能無法在本機上播放：
  有裂紋的 CD、有指印的 CD、曾受高溫或曝曬 （比如留在車內或本機內）的 CD、在不穩定條件下錄製的 CD、錄製失敗或試圖重錄的 CD、不符合音訊 CD 行業標準有拷貝保護的 CD。
- 請使用以與本機相容格式寫入MP3/WMA/AAC檔案的光碟。詳見第 10-11 頁。
- 播放時，光碟中非音訊檔案的 ROM 資料不會發出聲音。

保護 USB 連接器

- 僅當 USB 記憶體、iPhone/iPod 能夠連接至本機的 USB 連接器。使用其他 USB 產品無法保證正常使用。
- 如果使用 USB 連接器，請確定使用 USB 延長電纜 （另售）來連接本機。不支援 USB 集線器。
- 視所連接的 USB 記憶體設備而定，本機可能無法運作或不支援部份功能。
- 本機可播放的音訊檔案格式為 MP3/WMA/AAC。
- 可以顯示歌手 / 歌曲名稱等，然而，可能無法正確顯示某些字元。

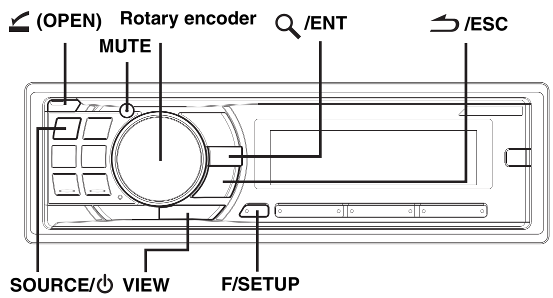
> ⚠**注意**
> *對於丟失資料等，即使是在使用本產品時發生，Alpine 概不負責。*

有關使用 USB 記憶體

- 為防止故障或損壞，請注意下列各點。
  請通讀 USB 記憶體的用戶手冊。
  請勿用手或金屬碰觸端子。
  請勿讓 USB 記憶體受到過度震動。
  請勿彎曲、摔落、拆解、改裝本機，或讓本機浸泡在水裡。
- 避免在下列地點使用或存放本機：
  在陽光直射下的車內或高溫場所。
  濕度高或存在腐蝕性物質的場所。
- 將 USB 記憶體安裝在不會妨礙駕駛員操作的位置。
- USB 記憶體可能無法在高溫或低溫的地方正確運作。
- 只使用經認可的 USB 記憶體。請注意，即使是經認可的 USB 記憶體，仍有可能因類型或狀態不同而無法正確運作。
- 無法保證 USB 記憶體的功能。請根據協議條款使用 USB 記憶體。
- 視 USB 記憶體類型、記憶體狀態或編碼軟體的設定而定，本機可能無法正確播放或顯示。
- 無法播放經防拷保護 （版權保護）的檔案。
- USB 記憶體可能需要一些時間才能開始播放。如果 USB 記憶體內有除音訊以外的特殊檔案，則播放或搜尋檔案之前可能需要更長的時間。
- 本機可以播放 “mp3”、“wma”、“m4a”副檔名。
- 請勿在非音訊資料檔案上加上以上副檔名。這種非音訊資料無法辨識。播放結果可能會包含能損壞揚聲器和 / 或放大器的噪音。
- 建議在個人電腦上備份重要的資料。
- 在播放過程中切勿移除USB裝置。將SOURCE變更為除USB以外的其他項，然後移除 USB 裝置，以防止損壞其記憶體。

- *Windows Media 與Windows 標誌是Microsoft Corporation 在美國和 / 或其他國家的商標或註冊商標。*
- *iPod 是 Apple Inc. 在美國和其他國家的註冊商標。*
- *iPhone 是 Apple Inc. 的商標。*
- *“Made for iPod”表示電子附件設計為專門連接至 iPod，並經開發者認證符合 Apple 性能標準。*
- *“Works with iPhone”表示電子附件設計為專門連接至 iPhone，並經開發者認證符合 Apple 性能標準。*
- *Apple對本裝置的操作或其與安全規則標準的符合概不負責。*
- *藍芽單詞標記和標誌歸 Bluetooth SIG, Inc. 所有，Alpine Electronics, Inc. 對此類標記的使用均受許可。其他商標和品牌名稱歸其各自所有者所有。*
- *“**MPEG Layer-3** 音訊編碼技術經**Fraunhofer IIS** 和**Thomson** 授權。”*
- *“本產品僅供個人和非商業性使用，未經授權，不得用於任何商業性 （即收益性）的即時廣播 （如全球、衛星、有線和／或其他任何媒體）、在互聯網、局域網和／或其他網路上進行的廣播／串流，或者付費音訊／音訊點播等電子內容傳播系統中的廣播／串流。該領域的使用需單獨得到授權。詳情請訪問 **http://www.mp3licensing.com**”*
- ***Audyssey MultEQ XT** 是 **Audyssey laboratories Inc.** 的註冊商標。*

準備工作



附件清單

- 主機 1
- 電源線 1
- 安裝殼套 1
- 攜帶盒 1
- 托架鑰匙 2
- 螺絲 （M5 × 8） 4
- 用戶手冊 .... 1 套

電源開啓和關閉

按 **SOURCE/⏻** 開啓本機。

- *可按 VIEW 鍵之外的其他任何按鈕開啓本機。*

按住 **SOURCE/⏻** 至少 **2** 秒鐘可關閉本機。

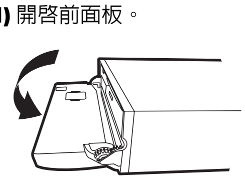
- *第一次開啓電源時，音量從 12 級開始。*

拆卸和安裝前面板

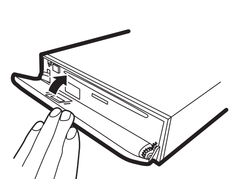
拆卸

1 關閉本機電源。

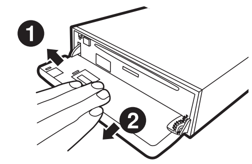
2 按 **(OPEN)** 開啓前面板。



若要關閉前面板，按前面板的左側，直至其鎖緊，如下圖所示。



3 牢牢握住前面板並向左滑至❶，然後再拉出❷以取出。

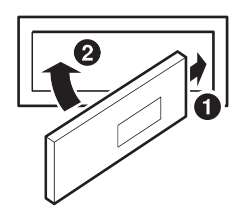


- *前面板在正常使用中可能變燙（特別是前面板背部的連接器端子）。這並不是故障。*
- *爲了保護前面板，請將其放在附帶的攜帶盒中。*
- *拆卸前面板時，切勿用力過猛，否則可能引起故障。*
- *請勿將前面板一直開著，或在前面板開著時駕駛汽車，否則可能會造成意外或故障。*

安裝

1 將前面板的右側插入主機。將前面板上的凹槽對準主機上的突出部分。

2 推入前面板的左側，直至其牢固地裝入主機。



- *安裝前面板前，請確保連接器端子上無污垢或灰塵，且前面板和主機之間無雜物。*
- *安裝前面板時請小心，注意應抓住前面板的兩側，以避免誤壓按鈕。*

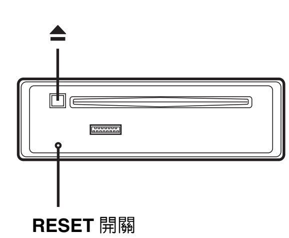
初始化系統啓動

在初次使用本機時，或者更換汽車電瓶等情況後，務必按一下 RESET 開關。

1 關閉本機電源。

2 按 **(OPEN)** 開啓前面板，然後將其取出。

3 用原子筆或類似尖頭物件按一下 **RESET**。



調節音量

旋轉 **Rotary encoder** 直到獲得想要的音量。

快速降低音量

啓動靜音功能可迅速降低 20 dB 的音量。

按 **MUTE** 啓動 MUTE 模式。
音量將降低約 20 dB。

再按一次 **MUTE** 將使音量恢復至先前的水平。

設定時間

1 按住 **F/SETUP** 至少 **2** 秒鐘將啓動 SETUP 選擇模式。

2 旋轉 **Rotary encoder** 選擇 CLOCK ADJUST，然後按 **/ENT**。

3 旋轉 **Rotary encoder** 設定小時。

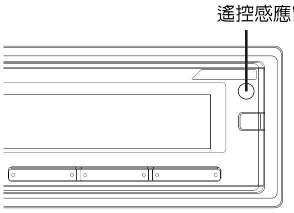
4 按 **/ENT**。

5 重複以上步驟 **3** 與 **4** 設定分鐘。

6 按住 **F/SETUP** 至少 **2** 秒鐘將返回正常模式。

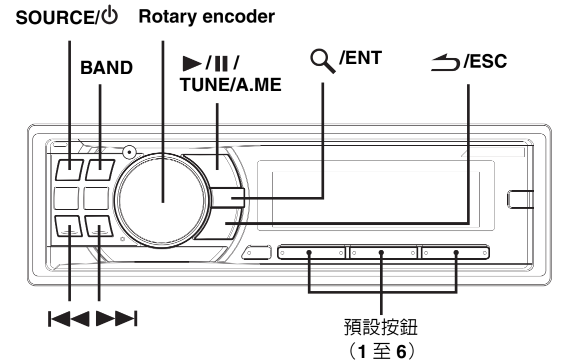
- *按 /ESC 將返回先前的 SETUP 模式。*
- *如果 60 秒鐘沒有執行任何操作，即取消 SETUP。*
- *若要使時鐘與其他時鐘 / 手錶或者無線電時間播報同步，則在設定 "小時" 後按住 /ENT 至少 2 秒鐘。分鐘重設爲 00。如果進行此步驟時顯示幕顯示超過 "30" 分，則時間會快一小時。*

可使用遙控器進行控制
本機可用選購的 Alpine 遙控器控制。詳情請聯絡您的 Alpine 經銷商。
將選購的遙控發射器對著遙控感應窗。



可連接至遙控介面盒
本機可以用汽車的音訊控制器控制。必須使用選購的 Alpine 遙控介面盒。詳情請聯絡您的 Alpine 經銷商。

無線電



收聽無線電

1 按 **SOURCE/⏻** 選擇 TUNER 模式。

2 反覆按 **BAND** 直至顯示您想要的無線電波段。

F1 (FM1) → F2 (FM2) → AM → F1 (FM1)

3 按 **TUNE/A.ME** 選擇調諧模式。

DX SEEK （遠地模式）→ SEEK （本地模式）→ OFF（手動模式）→ DX SEEK （遠地模式）

- *初始模式爲遠地模式。*

遠地模式：
訊號強和訊號弱的電台都被自動調入 （自動搜尋調諧）。

本地模式：
只自動調入訊號強的電台 （自動搜尋調諧）。

手動模式：
手動逐級調諧頻率 （手動調諧）。

4 按 ⏮ 或 ⏭ 調入想要收聽的廣播電台。
按住 ⏮ 或 ⏭ 將連續更改頻率。

手動儲存預設電台

1 選擇無線電波段並調至您想要儲存至預設記憶體的廣播電台。

2 按住您想要儲存電台的任一**預設按鈕**（**1至6**）至少**2**秒鐘。
所選的電台被儲存。
顯示幕顯示記憶的波段、預設號碼和電台頻率。

- *預設記憶體中總計可儲存 18 個電台（FM1、FM2 和 AM 波段各 6 個電台）。*
- *如果您在已存有電台的預設記憶體中儲存一個電台，當前電台將被清除並被新的電台替換。*

自動儲存預設電台

1 反覆按 **BAND** 直至顯示您想要的無線電波段。

2 按住 **TUNE/A.ME** 至少 **2** 秒鐘。
當自動記憶正在進行中時，畫面上的頻率會不斷改變。調諧器將自動搜尋並儲存所選波段中的 6 個訊號強的電台。它們將按訊號強度的順序儲存在 1 至 6 的預設按鈕中。
自動記憶完成後，調諧器將轉到儲存在預設位置 1 的電台上。

- *如果未儲存電台，則調諧器將返回自動記憶開始前您正在收聽的原始電台上。*

調諧至預設電台

1 反覆按 **BAND** 直至顯示您想要的波段。

2 按任意一個已記憶了想收聽電台的電台**預設按鈕** （**1 至 6**）。
顯示幕顯示所選電台的波段、預設號碼和頻率。

頻率搜尋功能

您可以依其頻率搜尋無線電電台。

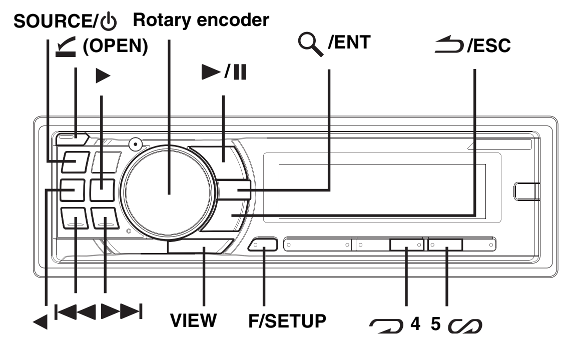
1 在無線電模式下按住 **/ENT** 至少 **2** 秒鐘即可啓動頻率搜尋模式。

2 旋轉 **Rotary encoder** 選擇想要的頻率。

3 按 **/ENT** 接收選擇的頻率。

- *在搜尋模式下按 /ESC 即可取消。或者，如果10 秒鐘沒有執行任何操作，即取消搜尋模式。*

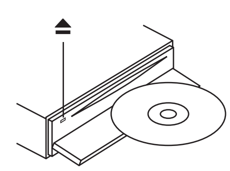
CD/MP3/WMA/AAC



播放

1 按 **(OPEN)**
前面板會開啓。

2 標籤面朝上插入光碟。
光碟被自動載入本機。



手動關閉前面板，“ ”指示燈亮起。
當本機內裝有光碟時，按 SOURCE/⏻ 切換至 DISC 模式。

TUNER → DISC → USB AUDIO*1/USB iPod*2 → BT AUDIO*3/AUX+*4 → CHANGER*5 → TUNER

**1 僅當沒有連接 iPhone/iPod 時顯示。*
**2 僅當連接了 iPhone/iPod 時顯示。*
**3 僅當 BLUETOOTH IN 設定爲 ADAPTE 時顯示，請參閱“設定藍芽連接”（第 16 頁）。*
**4 僅當 AUX+ SETUP 設定爲 ON 時顯示，請參閱 “設定 AUX+ SETUP 模式”（第 17 頁）。*
**5 僅當連接了 CD 換碟機時。*

3 播放 **MP3/WMA/AAC** 時，按◀或▶選擇想要的資料夾。
按住◀或▶將連續更改資料夾。

4 按|◀◀或▶▶|選擇想要的曲目 （檔案）。

返回當前曲目 （檔案）的起點：
按|◀◀。

快退：
按住|◀◀。

進到下一曲目 （檔案）的起點：
按▶▶|。

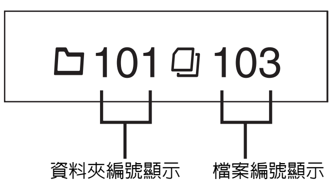
快進：
按住▶▶|。

5 若要暫停播放，按 ▶/❚❚。
再次按 ▶/❚❚ 將恢復播放。

6 按 **(OPEN)** 開啓前面板後，按 ▲ 彈出光碟。

- *請勿在 CD 退出過程中將其取出。請勿一次裝入多張光碟。這兩種情況都會導致故障。*
- *如果 CD 不能退出，請按住 ▲ 至少 2 秒鐘。*
- *當裝入光碟時，“ ”指示燈亮起。*
- *8 cm CD 無法使用。*
- *CD 播放機可以播放包含音訊資料、MP3 資料、WMA 資料與 AAC 資料的光碟。*
- *在播放 MP3 時會顯示 “MP3”。*
- *在播放 WMA 時會顯示 “WMA”。*
- *在播放 AAC 時會顯示 “AAC”。*
- *受 DRM（數位權利管理）保護的 WMA 格式檔案、從 iTunes Store 購買的 AAC 格式檔案，以及有經防拷保護（版權保護）的檔案，無法在本機上播放。*
- *MP3/WMA/AAC 資料播放的曲目顯示是光碟上錄製的檔案編號。*
- *播放 VBR（可變位元率）錄製的文檔時，播放時間可能無法正確顯示。*

MP3/WMA/AAC 播放顯示
將如下顯示資料夾編號和檔案編號。



- *按 **VIEW** 切換顯示畫面。有關切換顯示畫面的資訊，請參見第 14 頁的 “顯示文字”。*

重複播放

按 **4** 重複播放當前播放的曲目。
曲目 （檔案）將重複播放。

再次按 4 並選擇 off 可關閉重複播放。

CD 模式：

↓
：僅重複播放一首曲目。
↓
*1 ：重複播放一張光碟。
↓
(off)

*1 *當連接了 CD 換碟機時。*

- *當以 CD 換碟機模式進行 M.I.X. 播放時，如果 設定為 ON，M.I.X. 僅會應用在當前的光碟上。*

MP3/WMA/AAC 模式：

↓
：僅重複播放一個檔案。
↓
：僅重複播放一個資料夾中的檔案。
↓
*2 ：重複播放一張光碟。
↓
(off)

*2 *當連接了與 MP3 相容的 CD 換碟機時。*

- *如果連接了 CD 換碟機或與 MP3 相容的 CD 換碟機：*
  *按 **F/SETUP** 選擇功能模式（ / ）後，請在 10 秒內執行操作。*

M.I.X. （隨機播放）

在播放或暫停模式下按 **5** 。
以隨機順序播放光碟里的曲目 （檔案）。

若要取消 M.I.X. 播放，再次按 5 。

內部 CD 模式：

↓
：曲目以隨機順序播放。
↓
(off)

CD 換碟機模式：

↓
：曲目以隨機順序播放。
↓
*3 ：隨機播放當前光碟匣裡的所有 CD 曲目。
↓
(off)

*3 *當連接了具有 ALL M.I.X. 功能的 CD 換碟機時。*

- *當以 CD 換碟機模式進行 （REPEAT ALL）播放時，如果 設定為 ON，M.I.X. 僅會應用在當前的光碟上。*

MP3/WMA/AAC 模式：

↓
：只有一個資料夾中的檔案以隨機順序播放。
↓
*4 ：檔案以隨機順序播放。
如果連接了與 MP3 相容的 CD 換碟機，光碟內的所有檔案會以隨機順序播放，並且播放會切換到下一張光碟。
↓
(off)

*4 *在 USB 模式中，USB 記憶體中保存的所有檔案將隨機播放，並且“ ”指示亮起。*

- *當在 USB 模式中隨機 （M.I.X.）播放歌曲時，即使未播放完 USB 記憶體中的所有歌曲，播放過的歌曲也可能會再次播放。*
- *如果連接了 CD 換碟機或與 MP3 相容的 CD 換碟機：*
  *按 **F/SETUP** 選擇功能模式（ / ）後，請在 10 秒內執行操作。*

CD 文字搜尋

可在使用 CD 文字的光碟上，以記錄標題搜尋和播放歌曲。若爲無 CD 文字的光碟，則可使用與每首歌曲相關的曲目標號來進行搜尋。

1 播放時按 🔍 **/ENT**。
這將進入搜尋模式。

2 旋轉 **Rotary encoder** 選擇想要的曲目，然後按 🔍 **/ENT**。
這將播放所選的曲目。

- *在搜尋模式下按 ⮌ /ESC 即可取消。30 秒鐘沒有執行任何操作，即取消搜尋模式。*
- *在 M.I.X. 播放時搜尋 CD 文字，便會取消 M.I.X. 播放模式。*

檔案 / 資料夾名稱搜尋（關於 MP3/WMA/AAC）

播放過程中，可搜尋和顯示資料夾和檔案的名稱。

1 播放 **MP3/WMA/AAC** 時，按 🔍 **/ENT** 啓動搜尋模式。

2 旋轉 **Rotary encoder** 選擇資料夾名稱搜尋模式或檔案名稱搜尋模式，然後按 🔍 **/ENT**。

資料夾名稱搜尋模式

3 旋轉 **Rotary encoder** 選擇想要的資料夾。

4 按住 🔍 **/ENT** 至少 **2** 秒鐘播放所選資料夾內的首個檔案。

- *在搜尋模式下按住 ⮌ /ESC 至少 2 秒鐘即可取消。30 秒鐘沒有執行任何操作，即取消搜尋模式。*
- *若要在資料夾名稱搜尋模式中搜尋檔案，按 🔍 /ENT。可以搜尋資料夾內的檔案。*
- *在步驟 3 中按 ⮌ /ESC 退出資料夾名稱搜尋模式以便選擇檔案名稱搜尋模式。*
- *根目錄資料夾顯示爲 "–––––––––––––"。*
- *在 M.I.X. 播放時搜尋資料夾名稱，便會取消 M.I.X. 播放模式。*

檔案名稱搜尋模式

3 按 ◀ 或 ▶ 選擇其他資料夾。

4 旋轉 **Rotary encoder** 選擇想要的檔案。

5 按 🔍 **/ENT** 播放所選的檔案。

- *在搜尋模式下按住 ⮌ /ESC 至少 2 秒鐘即可取消。30 秒鐘沒有執行任何操作，即取消搜尋模式。*
- *在搜尋模式中按 ⮌ /ESC 返回先前的模式。*
- *在 M.I.X. 播放時搜尋檔案名稱，便會取消 M.I.X. 播放模式。*

快速搜尋

您可以搜尋曲目 （檔案）。

1 在 **CD/** 換碟機 **/MP3/WMA/AAC** 模式下按住 🔍 **/ENT** 至少 **2** 秒鐘即可啓動快速搜尋模式。

2 旋轉 **Rotary encoder** 選擇想要的曲目 （檔案）。
所選的曲目會立即播放。

- *在搜尋模式下按 ⮌ /ESC 即可取消。10 秒鐘沒有執行任何操作，即取消搜尋模式。*

關於 MP3/WMA/AAC

> *注意*
> *除了用於個人用途，版權法和國際公約嚴禁未經版權所有者同意拷貝音訊資料 （包括 MP3/WMA/AAC 資料），或對其進行分發、傳送或拷貝，無論免費或收費。*

*何謂 **MP3**？*

MP3，其正式名稱是 "MPEG-1 Audio Layer 3"，是一種由 ISO （國際標準化組織）和 IEC 下的一個聯合執行機構 MPEG 規定的壓縮標準。

MP3 檔案含有壓縮的音訊資料。MP3 編碼能夠以極高比例壓縮音訊資料，將音樂檔案的尺寸減小到原來的十分之一。同時，音質仍保持接近 CD 的水平。MP3 格式透過去除人耳無法聽到的或被其他聲音掩蓋的聲音來實現如此高的壓縮率。

*何謂 **AAC**？*

AAC 是 "Advanced Audio Coding" 的縮寫，也是 MPEG2 或 MPEG4 使用的音訊壓縮基本格式。

*何謂 **WMA**？*

WMA 或 "Windows Media™ Audio" 是壓縮的音訊資料。
WMA 與 MP3 音訊資料類似，接近 CD 的音質，但檔案較小。

*建立 **MP3/WMA/AAC** 檔案的方法*

可使用具 MP3/WMA/AAC 編解碼器的軟體壓縮音訊資料。有關建立 MP3/WMA/AAC 檔案的詳細資訊，請參閱該軟體的用戶手冊。
本機可播放的 MP3/WMA/AAC 檔案應具有以下副檔名。
MP3："mp3"
WMA："wma"（支援版本 7.1、8 和 9）
AAC："m4a"

AAC 格式有許多不同的版本。確認使用的軟體符合以上所列的可以接受的格式。即使副檔名有效，仍有可能無法播放該格式。
支援播放由 iTunes 編碼的 AAC 檔案。

支援的播放取樣頻率和位元率

MP3
取樣頻率： 48 kHz，44.1 kHz，32 kHz，24 kHz，22.05 kHz，16 kHz，12 kHz，11.025 kHz，8 kHz
位元率： 8 - 320 kbps

WMA
取樣頻率： 48 kHz，44.1 kHz，32 kHz
位元率： 48 - 192 kbps

AAC
取樣頻率： 48 kHz，44.1 kHz，32 kHz，24 kHz，22.05 kHz，16 kHz，12 kHz，11.025 kHz，8 kHz
位元率： 16 - 320 kbps

視取樣頻率而定，本機可能無法正確播放。
在 USB 模式中，播放 VBR（可變位元率）錄製的檔案時，播放時間可能無法正確顯示。

ID3 標記 /WMA 標記

本機支援 ID3 標記 v1、v2 和 WMA 標記。
若標記資料在 MP3/WMA/AAC 檔案中，本機便可顯示標題（曲目標題）、歌手姓名和專輯名稱的 ID3 標記 /WMA 標記資料。
本機僅能顯示單位元組的字母與數字字元（ID3 標記最多 30 個字元，WMA 標記最多 15 個字元）以及下劃線。對於不支援的字元，顯示為 "NO SUPPORT"。
如果資訊含有 ID3 標記資訊以外的字元，則可能無法播放音訊檔案。
視內容而定，標記資訊可能無法正確顯示。

播放 MP3/WMA/AAC 光碟

準備好 MP3/WMA/AAC 檔案後，用 CD-R 寫入軟體將其寫入 CD-R 或 CD-RW 或保存到 USB 記憶體。一張光碟最多只能容納 510 個檔案 / 資料夾（包括根目錄資料夾），資料夾數最多為 255。
本機至少可以識別 USB 記憶體中保存的 100 個資料夾（包括根目錄資料夾）和每個資料夾 100 個檔案。如果光碟或 USB 記憶體超出上述限制，可能無法進行播放。
一個檔案的播放時間不要超過 1 小時。

支援的媒體

本機能夠播放的媒體是 CD-ROM、CD-R 和 CD-RW。
本機也可以播放 USB 記憶體媒體。

相應的檔案系統

本機支援按 ISO9660 Level 1 或 Level 2 格式化的光碟。

在 ISO9660 標準下，注意以下限制。
最大嵌套資料夾深度為 8（包括根目錄資料夾）。資料夾 / 檔案名稱的字元數有限制。
資料夾 / 檔案名稱的有效字元是字母 A-Z （皆大寫）、數字 0-9 和 '_'（下劃線）。

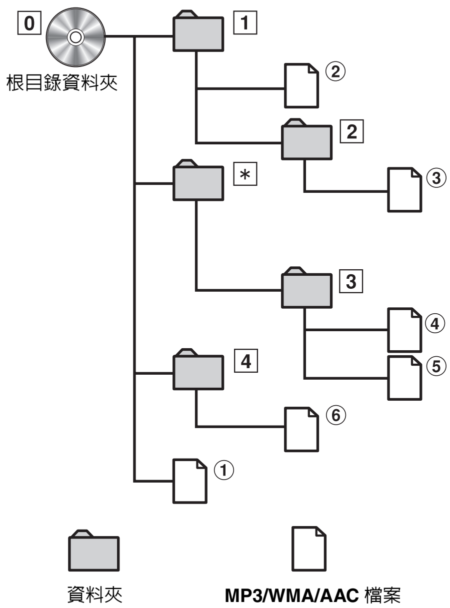
本機還能播放 Joliet、Romeo 等以及其他符合 ISO9660 標準的光碟。但有時檔案名稱、資料夾名稱等無法正確顯示。
本機還為 USB 記憶體設備支援 FAT 12/16/32。

支援的格式

本機支援 CD-ROM XA、混合模式 CD、增強型 CD （CD-Extra）以及多區段。
本機無法正確播放以軌道一次寫入或封包寫入方式錄製的光碟。

檔案的順序

檔案依寫入軟體寫入光碟的順序進行播放。因此，播放順序可能與您預期的有所不同。確認軟體文檔中的寫入順序。資料夾和檔案的播放順序如下所示。



* *如果資料夾內沒有檔案，則不顯示資料夾編號 / 資料夾名稱。*

術語

位元率
這是為編碼而規定的 "聲音" 壓縮比。位元率越高，音質越好，但檔案也越大。

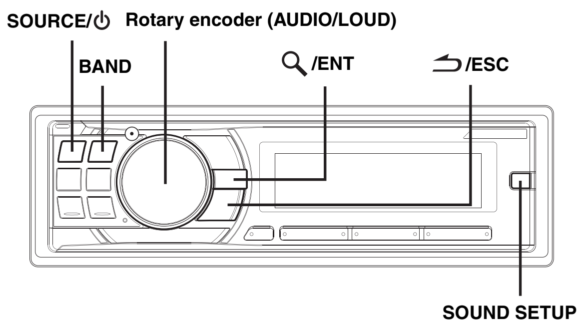
取樣頻率
本值表示每秒對資料取樣 （錄製）的次數。例如，音樂 CD 採用 44.1 kHz 的取樣頻率，因此每秒對聲音取樣 （錄製） 44100 次。取樣頻率越高，音質越好，但資料量也越大。

編碼
將音樂 CD 、WAVE (AIFF) 檔案和其他聲音檔案轉換為指定的音訊壓縮格式。

標記
寫入 MP3/WMA/AAC 檔案的歌曲資訊，比如曲目標題、歌手姓名和專輯名稱等。

根目錄資料夾
檔案系統的頂部可找到根目錄資料夾（或根目錄）。根目錄資料夾包括全部資料夾和檔案。所有燒錄的光碟都會自動建立。

聲音設定



調節重低音等級 / 低音等級 / 高音等級 / 平衡 （左右之間） / 衰減 （前後之間） / 清除

1 反覆按 **Rotary encoder (AUDIO)** 選擇想要的模式。

每按一次，模式如下改變：

SUBW LEVEL* → BASS LEVEL → TREBLE LEVEL → BALANCE → FADER → DEFEAT → VOLUME → SUBW LEVEL

重低音等級：+0 ～ +15
低音等級：–7 ～ +7
高音等級：–7 ～ +7
平衡：L15 ～ R15
衰減：R15 ～ F15
清除：ON/OFF
音量：0 ～ 35

- *選擇 SUBW LEVEL、BASS LEVEL、TREBLE LEVEL、BALANCE、FADER 或 DEFEAT 模式後，如果 5 秒鐘沒有執行任何操作，本機將自動返回到正常模式。*

* *當重低音揚聲器模式設定爲 OFF 時，其音量等級不能調節。請參閱 "開啓 / 關閉重低音揚聲器"（第 14 頁）。*

2 旋轉 **Rotary encoder** 直到各模式獲得想要的聲音。
以設定 DEFEAT ON 的方式，就能將之前調節的 BASS 與 TREBLE 設定返回到出廠預設設定。

- *視連接的裝置而定，某些功能與顯示指示無法運作。*

設定重低音揚聲器等級

您可以改變重低音揚聲器等級以建立自己喜好的音調。

1 按 **SOUND SETUP** 啓動聲音設定模式。

2 旋轉 **Rotary encoder** 選擇 **SUBW LEVEL** 調節模式，然後按 **/ENT**。

SUBW LEVEL*[1] ↔ BASS*[2] ↔ TREBLE*[2] ↔ HPF*[2] ↔ SUBW LEVEL

3 旋轉 **Rotary encoder** 選擇想要的重低音揚聲器等級（**+0~+15**）。

- *如果 15 秒鐘沒有執行任何操作，本機將自動返回到正常模式。*
- *當重低音揚聲器設定爲 OFF 且 DEFEAT 設定爲 ON 時，短時按 SOUND SETUP 按鈕不會起作用。*

*[1] *當重低音揚聲器模式設定爲 OFF 時，其音量等級不能調節，請參閱 "開啓 / 關閉重低音揚聲器"（第 14 頁）。*
*也可按 **Rotary encoder (AUDIO)** 進行調節。請參閱 "調節重低音等級 / 低音等級 / 高音等級 / 平衡 （左右之間） / 衰減 （前後之間） / 清除"（第 12 頁）。*
*[2] *當 DEFEAT 設定爲 ON 時，無法使用此功能。*

設定低音控制

您可以改變低音頻率的增強特性以建立自己喜好的音調。

1 按 **SOUND SETUP** 啓動聲音設定模式。

2 旋轉 **Rotary encoder** 選擇 **BASS** 調節模式，然後按 **/ENT**。

SUBW LEVEL*[3] ↔ BASS*[4] ↔ TREBLE*[4] ↔ HPF*[4] ↔ SUBW LEVEL

設定低音中心頻率

3-1 按 **BAND** 選擇想要的低音中心頻率。

80 Hz → 100 Hz → 200 Hz → 60 Hz → 80 Hz

增強所顯示的低音頻率範圍。

設定低音頻寬

3-2 按 **SOURCE/⏻** 選擇想要的低音頻寬。

→ 1 → 2 → 3 → 4
（窄）← ······················ →（寬）

將被增強的低音頻寬改爲較寬或較窄。較寬的設定將使中心頻率値上方或下方寬廣範圍內的頻率得到增強。較窄的設定將只能使中心頻率値附近的頻率得到增強。

設定低音等級

3-3*5 旋轉 **Rotary encoder** 選擇想要的低音等級（**–7~+7**）。
您可以增強或減弱低音等級。

4 按住 ⮌**/ESC** 至少 **2** 秒鐘將返回正常模式。

- *如果 15 秒鐘沒有執行任何操作，本機將自動返回到正常模式。*
- *將單獨給各個訊號源（FM、AM、CD 等）儲存低音等級設定值，直至設定被更改。為一個訊號源調整的低音頻率和低音頻寬設定對所有其他訊號源（FM、AM、CD 等）都有效。*
- *視連接的裝置而定，某些功能與顯示指示無法運作。然而，如果連接了具有低音功能的音訊處理器，低音等級仍可調整。*
- *當重低音揚聲器設定為 OFF 且 DEFEAT 設定為 ON 時，短時按 SOUND SETUP 按鈕不會起作用。*

*3 *當重低音揚聲器模式設定為 OFF 時，其音量等級不能調節。請參閱 "開啓 / 關閉重低音揚聲器"（第 14 頁）。*
*4 *當 DEFEAT 設定為 ON 時，無法使用此功能。*
*5 *也可按 **Rotary encoder (AUDIO)** 進行調節。請參閱 "調節重低音等級 / 低音等級 / 高音等級 / 平衡（左右之間）/ 衰減（前後之間）/ 清除"（第 12 頁）。*

設定高音控制

您可以改變高音頻率的增強特性以建立自己喜好的音調。

1 按 **SOUND SETUP** 啓動聲音設定模式。

2 旋轉 **Rotary encoder** 選擇 **TREBLE** 調節模式，然後按 🔍**/ENT**。

SUBW LEVEL*6 ↔ BASS*7 ↔ TREBLE*7 ↔ HPF*7 ↔ SUBW LEVEL

設定高音中心頻率

3-1 按 **BAND** 選擇想要的高音中心頻率。

10.0 kHz → 12.5 kHz → 15.0 kHz → 17.5 kHz → 10.0 kHz

增強所顯示的高音頻率範圍。

設定高音等級

3-2*8 旋轉 **Rotary encoder** 選擇想要的高音等級（**–7~+7**）。
您可以增強或減弱高音等級。

4 按住 ⮌**/ESC** 至少 **2** 秒鐘將返回正常模式。

- *如果 15 秒鐘沒有執行任何操作，本機將自動返回到正常模式。*
- *將單獨給各個訊號源（FM、AM、CD 等）儲存高音等級設定值，直至設定被更改。為一個訊號源調整的高音頻率設定對所有其他訊號源（FM、AM、CD 等）都有效。*
- *視連接的裝置而定，某些功能與顯示指示無法運作。然而，如果連接了具有高音功能的音訊處理器，高音等級仍可調整。*
- *當重低音揚聲器設定為 OFF 且 DEFEAT 設定為 ON 時，短時按 SOUND SETUP 按鈕不會起作用。*

*6 *當重低音揚聲器模式設定為 OFF 時，其音量等級不能調節。請參閱 "開啓 / 關閉重低音揚聲器"（第 14 頁）。*
*7 *當 DEFEAT 設定為 ON 時，無法使用此功能。*
*8 *也可按 **Rotary encoder (AUDIO)** 進行調節。請參閱 "調節重低音等級 / 低音等級 / 高音等級 / 平衡（左右之間）/ 衰減（前後之間）/ 清除"（第 12 頁）。*

調節高通濾波器

您可調節本機的高通濾波器以符合自己的偏好。

1 按 **SOUND SETUP** 啓動聲音設定模式。

2 旋轉 **Rotary encoder** 以選擇高通濾波器（**HPF**）調節模式，然後按 🔍**/ENT**。

SUBW LEVEL*9 ↔ BASS*10 ↔ TREBLE*10 ↔ HPF*10 ↔ SUBW LEVEL

3 旋轉 **Rotary encoder** 選擇想要的高通濾波器頻率。

OFF ↔ 60 Hz ↔ 80 Hz ↔ 100 Hz

4 按住 ⮌**/ESC** 至少 **2** 秒鐘將返回正常模式。

- *如果 15 秒鐘沒有執行任何操作，本機將自動返回到正常模式。*
- *連接外接音訊處理器時，便無法進行此設定。*
- *當重低音揚聲器設定為 OFF 且 DEFEAT 設定為 ON 時，短時按 SOUND SETUP 按鈕不會起作用。*

*9 *當重低音揚聲器模式設定為 OFF 時，其音量等級不能調節。請參閱 "開啓 / 關閉重低音揚聲器"（第 14 頁）。*
*10 *當 DEFEAT 設定為 ON 時，無法使用此功能。*

開啓 / 關閉響度

響度可在以低音量收聽時引進一種特殊的低頻和高頻增強效果。這樣可補償人耳對低音和高音靈敏度的降低。

按住 **Rotary encoder (LOUD)** 至少 **2** 秒鐘以啓動或關閉響度模式。

- *連接外接音訊處理器時，便無法進行此設定。*
- *當 DEFEAT 設定為 ON 時，無法使用此功能。*

開啓 / 關閉重低音揚聲器

當重低音揚聲器開啓時，您可調節重低音揚聲器的輸出等級（請參閱第 12 頁）。

1 按住 **SOUND SETUP** 至少 **2** 秒鐘將啓動 **Subwoofer** 選擇模式。

2 旋轉 **Rotary encoder** 選擇 **SUBWOOFER** 模式，然後按 **/ENT**。

SUBWOOFER ↔ SUBW SYSTEM*[11] ↔ SUBWOOFER

3 旋轉 **Rotary encoder** 選擇 **SUBW ON/OFF** 然後按 **/ENT**。

SUBW ON （初始設定）↔ SUBW OFF

4 按住 **/ESC** 至少 **2** 秒鐘將返回正常模式。

- *如果 15 秒鐘沒有執行任何操作，本機將自動返回到正常模式。*

*[11] *僅當 SUBWOOFER 設定爲 ON 時顯示。*

設定重低音揚聲器系統

當重低音揚聲器啓動時，您可選擇想要的 System1 或 System2 重低音揚聲器效果。

1 按住 **SOUND SETUP** 至少 **2** 秒鐘將啓動 **Subwoofer** 選擇模式。

2 旋轉 **Rotary encoder** 選擇 **SUBW SYSTEM** 模式，然後按 **/ENT**。

SUBWOOFER ↔ SUBW SYSTEM ↔ SUBWOOFER

3 旋轉 **Rotary encoder** 選擇 **SUBW SYS 1** 或 **SUBW SYS 2**，然後按 **/ENT**。
選擇 SYS 1 或 SYS 2 以獲取想要的重低音揚聲器效果。

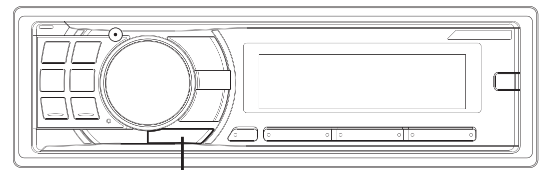
SUBW SYS 1 （初始設定）↔ SUBW SYS 2

SUBW SYS 1:	重低音揚聲器的音量隨主音量設定改變。
SUBW SYS 2:	重低音揚聲器的音量變化與主音量設定不同。例如，即使音量設定爲低時，依然能夠聽見重低音揚聲器的聲音。

4 按住 **/ESC** 至少 **2** 秒鐘將返回正常模式。

- *如果 15 秒鐘沒有執行任何操作，本機將自動返回到正常模式。*
- *當 SUBWOOFER 設定爲 OFF 時，無法使用此功能。*

其他功能



顯示文字

如果播放與 CD 文字相容的光碟，則將顯示文字資訊，如光碟名稱和曲目名稱。播放 MP3/WMA/AAC 檔案時也可顯示資料夾名稱、檔案名稱和標記等。

按 **VIEW**。
每按一次此按鈕，顯示將改變。

- *當 TEXT SCROLL 設爲 SCROLL MANU 時，請按住 **VIEW** 至少 2 秒鐘，便可捲動一次當前的文字（無線電模式除外）。*

無線電模式中的顯示：

頻率 → 時鐘 → 頻率

***CD** 模式中的顯示：*

曲目編號 / 已播放時間 → 曲目編號 / 時鐘 → 文字（光碟名稱）*[1] → 文字（曲目名稱）*[1] → 曲目編號 / 已播放時間

***MP3/WMA/AAC** 模式中的顯示：*

檔案編號 / 已播放時間 → 資料夾編號 / 檔案編號 → 檔案編號 / 時鐘 → 資料夾名稱 *[2] → 檔案名稱→ 歌手姓名 *[3] → 專輯名稱 *[3] → 歌曲名稱 *[3] → 檔案編號 / 已播放時間

藍芽音訊中的顯示：

僅當支持藍芽音訊的電話或設備被正確接入藍芽介面 (KCE-400BT) 時，將出現下列顯示。詳細資訊，請參閱藍芽介面 (KCE-400BT) 的用戶手冊。

BT 音訊 → 時鐘 → 歌手姓名 *[4] → 專輯名稱 *[4] → 歌曲名稱 *[4] → BT 音訊

*[1] *在播放含有 CD 文字的光碟時顯示。
如果沒有文字（光碟名稱或曲目名稱），則會顯示 “DISC TEXT” / “TRACK TEXT”。換碟機上會顯示 “DISC TEXT” / “TRACK TEXT”。*

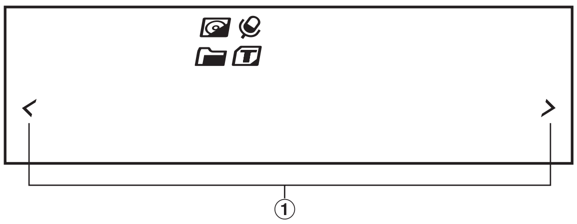
*[2] *根目錄資料夾顯示爲 “FOLDER”。USB 記憶裝置的根目錄資料夾顯示爲 “ROOT”。*

*[3] *ID3 標記 /WMA 標記
如果 MP3/WMA/AAC 檔案含有 ID3 標記 /WMA 標記資訊，則將顯示 ID3 標記 /WMA 標記資訊（例如歌曲名稱、歌手姓名與專輯名稱）。所有其他標記資料被忽略。
如果捲動設定（第 16 頁）設定爲 “SCROLL AUTO”，標記資訊會自動捲動顯示。
如果沒有標記資訊，便會顯示 “ARTIST” / “ALBUM” / “SONG”。*

*[4] *接收到 BT AUDIO 訊號時，便會顯示歌手、專輯、歌曲等文字資訊。
如果沒有文字資訊，便會顯示 “ARTIST” / “ALBUM” / “SONG”。*

關於指示顯示

當顯示文字時，根據模式將亮起以下指示。



① 在 SETUP 模式、搜尋模式和聲音設定模式等中亮起。

指示 / 模式	CD 模式	MP3/WMA/AAC/ USB AUDIO 模式	iPhone/iPod/ BT AUDIO 模式
	—	顯示資料夾名稱	—
	—	顯示歌手姓名	顯示歌手姓名
	顯示文字（光碟名稱）	顯示專輯名稱	顯示專輯名稱
	顯示文字（曲目名稱）	顯示歌曲名稱 / 檔案名稱	顯示歌曲名稱

關於 "文字"

文字：

與文字相容的 CD 含有文字資訊，例如光碟名稱與曲目名稱。此類文字資訊被稱作 "文字"。

- *視字元類型而定，某些字元可能無法在本機上正確顯示。*
- *CD 換碟機也必須與 CD 文字相容，以便顯示文字資訊。*
- *視內容而定，文字或標記資訊可能無法正確顯示。*

顯示時間

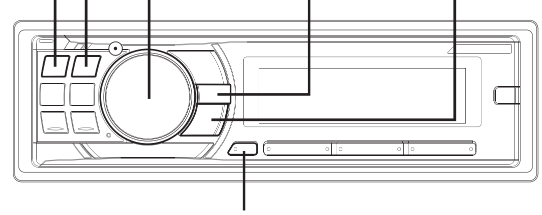
反覆按 **VIEW** 直至顯示時間。

每按一次，顯示都會改變。
詳情請參閱 "顯示文字"（第 14 頁）。

- *當本機在時鐘優先模式時，選擇任何調諧器或 CD 功能將會暫時中止時間顯示。選擇的功能將顯示約 5 秒鐘，然後又恢復時間顯示。*
- *當電源關閉但點火開關開啓時，按 VIEW 顯示或關閉時間。*

設定

您可以按自己的偏好和用途對本機靈活設定。從 SETUP 選單中，可以調整顯示自訂、外接裝置等。



使用步驟 **1** 至 **4** 選擇任一種 **SETUP** 模式進行調整。有關所選 **SETUP** 項目的詳細資訊，請參閱以下適用章節。

1 按住 **F/SETUP** 至少 **2** 秒鐘將啓動 **SETUP** 模式。

2 旋轉 **Rotary encoder** 選擇想要的項目，然後按 **/ENT**。

（例如選擇 POWER IC）

BLUETOOTH IN*[1] ↔ ILLUMINATION ↔ LCD CONTRAST ↔ DIMMER ↔ PLAY MODE ↔ SCROLL TYPE ↔ TEXT SCROLL ↔ INT MUTE*[2] ↔ CLOCK ADJUST*[3] ↔ AUX+ SETUP ↔ AUX+ NAME*[4] ↔ AUX IN GAIN*[4] ↔ DIGITAL AUX ↔ D-AUX NAME*[5] ↔ AUX IN ↔ AUX NAME*[6] ↔ POWER IC ↔ DEMO ↔ BLUETOOTH IN

*[1] *僅當 INT MUTE 設定爲 OFF 且設定爲 BT AUDIO 以外的模式時顯示。*
*[2] *僅當 BLUETOOTH IN 設定爲 OFF 時顯示。*
*[3] *請參閱 "設定時間"（第 7 頁）。*
*[4] *僅當 AUX+ SETUP 設定爲 ON 時顯示。*
*[5] *僅當 DIGITAL AUX 設定爲 ON 時顯示。*
*[6] *僅當 AUX IN 設定爲 ON 時顯示。*

3 旋轉 **Rotary encoder** 更改設定，然後按 **/ENT**。
（例如選擇 POWER IC ON 或 POWER IC OFF）

4 按住 **F/SETUP** 至少 **2** 秒鐘將返回正常模式。

- *按 /ESC 將返回先前的 SETUP 模式。*
- *如果 60 秒鐘沒有執行任何操作，即取消 SETUP。*

BLUETOOTH IN

設定藍芽連接

BT IN ADAPTE / BT IN OFF *（初始設定）*

如果連接了選購的藍芽介面 (KCE-400BT)，您可以利用配備藍芽的手機撥打免持電話。當連接了藍芽介面 (KCE-400BT) 並使用藍芽功能時，進行此設定。詳情請參閱選購藍芽介面 (KCE-400BT) 的用戶手冊。當連接藍芽介面 (KCE-400BT) 時，設定 ADAPTE。

- *僅當連接了選購的藍芽介面（KCE-400BT）可以使用 按鈕。*
- *如果連接了相容語音撥號功能的移動電話，語音撥號功能可以使用。*

顯示自訂

改變燈光色彩

ILLUMI TYPE1 *（初始設定）* ***/ ILLUMI TYPE2***

您可改變以下六個按鈕的燈光色彩。

SOURCE/⏻, BAND, ◀, ▶, |◀◀, ▶▶|。

TYPE1：當六個按鈕的色彩為藍色時，其他顏色為紅色。
TYPE2：當六個按鈕的色彩為紅色時，其他顏色為紅色。

調節顯示對比度

CONTRAST

您可調節顯示對比度以獲得更佳畫質。

您可在範圍 -5 與 +3 之間調節。

- *出廠時的初始設定為 "0"。*

調光器控制

DIMMER AUTO *（初始設定）* ***/ DIMMER MANU***

將 DIMMER 控制設定為 AUTO，汽車的頭燈打開時，降低本機的照明亮度。如果您覺得本機的背光在夜間過亮，此模式非常有用。

捲動類型設定

SCROLL TYPE1 / SCROLL TYPE2 *（初始設定）*

從兩種捲動方式中選擇。
選擇您喜歡的類型。

SCROLL TYPE1: 字元從右到左捲動顯示，一次一個字元。
SCROLL TYPE2: 從左到右構成一個詞，一次一個字元。顯示幕充滿字元時，會清空且剩餘的詞會以相同的方法顯示，直至標題的所有詞都被顯示。

捲動設定（**TEXT SCROLL**）

SCROLL AUTO / SCROLL MANU *（初始設定）*

本 CD 播放機可以捲動顯示 CD-TEXT 光碟上記錄的光碟和曲目名稱，以及 MP3/WMA/AAC 檔案的文字資訊、資料夾名稱和標記。

SCROLL AUTO: 連續捲動顯示 CD 文字資訊、資料夾和檔案名稱。此外，所有標記資訊連續在顯示幕上自動旋轉，不需按 VIEW 按鈕。
SCROLL MANU: 僅當載入光碟、改變頻道或曲目等時，上述資訊才會捲動。

- *本機可捲動顯示 CD 文字名稱、資料夾名稱、檔案名稱或標記顯示。*

演示

DEMO ON / DEMO OFF *（初始設定）*

本機有顯示幕的演示功能。

- *若要退出演示模式，請設定為 DEMO OFF。*

MP3/WMA/AAC

播放 **MP3/WMA/AAC** 資料（**PLAY MODE**）

CD-DA *（初始設定）* ***/ CD-DA&MP3***

本機可播放同時含有 CD 和 MP3/WMA/AAC 資料（以增強型 CD（CD Extra）格式建立）的 CD。但是，在有些情況下，可能難以播放增強型 CD。此時，您可以選擇只播放一個含有 CD 資料的區段。當光碟同時含有 CD 和 MP3/WMA/AAC 資料時，將從光碟的 CD 資料部分開始播放。

CD-DA: 只能播放區段 1 中的 CD 資料。
CD-DA&MP3: 可播放混合模式中的 CD 資料、MP3/WMA/AAC 檔案和多區段光碟。

- *插入光碟前先執行此設定。如果已經插入了光碟，請先將其取出。（如果您使用 MP3 換碟機，必須更換光碟。）*

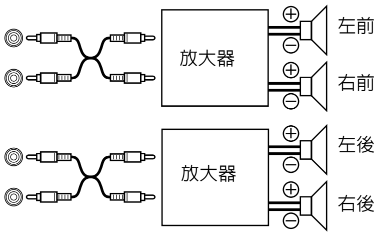
外接裝置

連接至外接放大器

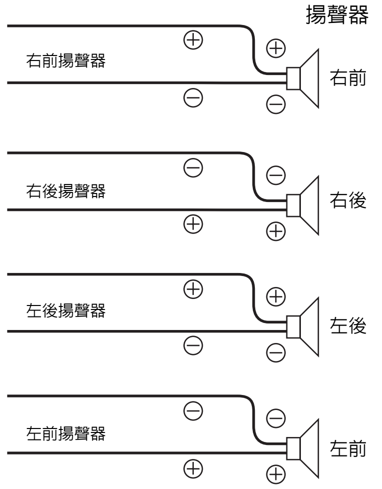
POWER IC ON *（初始設定）* ***/ POWER IC OFF***

與外接放大器相連時，可以經由停止對內建放大器供電來改善音質。

POWER IC OFF: 當使用本機線路輸出來驅動外接放大器時，請使用此模式。在此設定中，主機的內建放大器被關閉並且無法驅動揚聲器。



POWER IC ON: 揚聲器由內建放大器驅動。



- *當 POWER IC 設定為 OFF 時系統不會輸出聲音。*

開啓 / 關閉靜音模式 （INT MUTE）
MUTE ON / MUTE OFF *（初始設定）*

如果連接了具有中斷功能的裝置，當從裝置接收到中斷訊號時，音訊將會自動靜音。

設定 AUX+ SETUP 模式
AUX+ ON / AUX+ OFF *（初始設定）*

您可將外接裝置 （如攜帶式音訊播放器）的音訊輸入至本機的藍芽介面連接器。將藍芽介面連接器作為 AUX IN 轉接需要專用轉換電纜 （KCE-237B）。
攜帶式音樂裝置與藍芽介面 (KCE-400BT) 無法同時連接至藍芽 I/F 連接器。

AUX+ ON： 當連接攜帶式裝置時設為 ON。如果按下 SOURCE/⏻ 且選擇 AUX+，便可將攜帶式裝置的聲音輸入本機。

AUX+ OFF : 當設定為 OFF 時，無法選擇 AUX+ 音源。

當 AUX+ SETUP 設定為 ON 時，您可以改變 AUX+ NAME 顯示。當 AUX+ SETUP 設定為 ON 時，按 🔍 **/ENT** 並旋轉 **Rotary encoder** 來選擇 AUX+ NAME，然後按 🔍 **/ENT**。接著，旋轉 **Rotary encoder** 選擇想要的 AUX+ NAME。

設定 AUX+ 等級 （AUX IN GAIN）
LOW *（初始設定）* ***/ HIGH***

在 "設定 AUX+ SETUP 模式" 中設為 ON 後，即可執行此設定。

LOW: 降低外接輸入音訊等級。
HIGH: 增加外接輸入音訊等級。

設定外接數位輸入
D-AUX ON / D-AUX OFF *（初始設定）*

當連接 ALPINE Ai-NET 相容數位音訊處理器 （PXA-H701）以及 Ai-NET 不相容的 DVD 播放機 （DVE-5207）時，請將 D-AUX 設為 ON 以享受 5.1 頻道環繞音響。
當 D-AUX 設定為 ON 時，您可以改變 D-AUX NAME 顯示。當 D-AUX 設定為 ON 時，按 🔍 **/ENT** 並旋轉 **Rotary encoder** 來選擇 D-AUX NAME，然後按 🔍 **/ENT**。接著，旋轉 **Rotary encoder** 選擇想要的 D-AUX NAME。

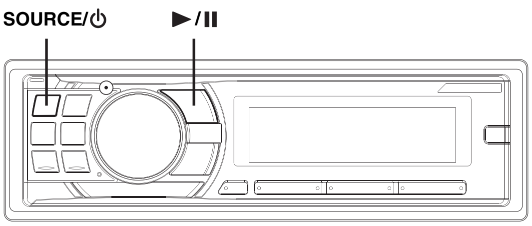
- *按* ***SOURCE/⏻*** *選擇 DIGITAL-AUX 模式、調整音量等。*
- *完成輸入選擇後，請將汽車熄火並再次啓動。完成光學數位輸入開關的設定。*
- *視連接的音訊處理器而定，DVD 播放機的聲音可能繼續輸出，即使改變訊號源也一樣。如果此情形發生，請將 DVD 播放機的電源設定為 OFF。*

設定 AUX 模式 （V-Link）
AUX IN ON / AUX IN OFF *（初始設定）*

您可以將選購的 Ai-NET/RCA 介面電纜（KCA-121B）或多功能連結端子（KCA-410C）連接到此部件上以輸入電視機 / 視訊的聲音。
當 AUX IN 設定為 ON 時，您可以改變 AUX 名稱顯示。當 AUX IN 設定為 ON 時，按 🔍 **/ENT** 並旋轉 **Rotary encoder** 來選擇 AUX NAME，然後按 🔍 **/ENT**。
接著，旋轉 **Rotary encoder** 選擇想要的 AUX 名稱。
如果連接了 KCA-410C，可選擇兩個 AUX 名稱。

- *透過 KCA-410C，最多可連接 2 個具有 RCA 輸出的外接裝置。此時，按* ***SOURCE/⏻*** *選擇 AUX 模式，然後按* ***BAND*** *選擇想要的裝置。*

USB 記憶裝置 （選購）



控制 USB 記憶裝置 （選購）

可將 USB 記憶裝置連接至本機。將 USB 記憶裝置連接至本機時，便可從本機播放音訊檔案。

- *僅當連接 USB 記憶裝置時，才可以操作本機的 USB 記憶裝置控制器。*

使用 USB 記憶裝置 （選購）播放 MP3/WMA/AAC 檔案

如果您連接的是含有 MP3/WMA/AAC 的 USB 記憶裝置，便可在本機播放這些檔案。

1 按 **SOURCE/⏻** 切換到 **USB AUDIO** 模式。

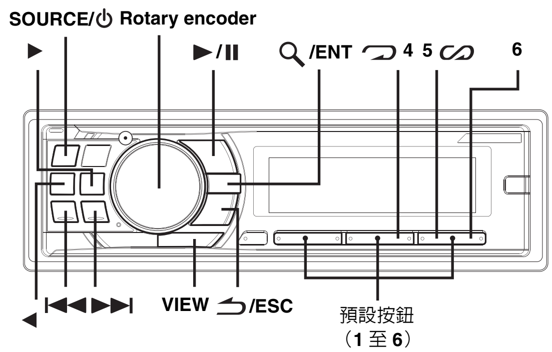
TUNER → DISC → USB AUDIO*1/USB iPod*2 → BT AUDIO*3/AUX+*4 → CHANGER*5 → TUNER

*1 *僅當沒有連接 iPhone/iPod 時顯示。*
*2 *僅當連接了 iPhone/iPod 時顯示。*
*3 *僅當 BLUETOOTH IN 設定為 ADAPTE 時顯示，請參閱 "設定藍芽連接"（第 16 頁）。*
*4 *僅當 AUX+ SETUP 設定為 ON 時顯示，請參閱 "設定 AUX+SETUP 模式"（第 17 頁）。*
*5 *僅當連接了 CD 換碟機時。*

2 若要暫停播放，按 **▶/❚❚**。
再次按 ▶/❚❚ 將恢復播放。

- *根目錄資料夾會在資料夾名稱搜尋模式中顯示為 "ROOT"。*
- *本機以播放含有 MP3/WMA/AAC 光碟的相同控制與模式來播放 USB 記憶裝置內的檔案。詳情請參閱 第 8 頁 至 11 頁的 "CD/MP3/WMA/AAC"。*
- *斷開 USB 記憶裝置連接之前，必須變更為另一個訊號源或設定為暫停。*
- *播放 VBR （可變位元率）錄製的文檔時，播放時間可能無法正確顯示。*

iPhone/iPod （選購）



可以使用 iPod 用介面電纜 （KCU-440i, 另售）將 iPhone/iPod 連接至本機。當用此電纜與本機相連時，iPod 上的控制按鈕將無法使用。

- *連接本機時，也可以使用 iPod touch 或 iPhone 等的網際網路和電話功能。但是，使用這些功能會停止或暫停播放歌曲，此時請勿操作本機以避免發生故障。*
- *如果將 iPhone 連接至本機，可以作為 iPod 使用。如果要使用 iPhone 撥打免持電話，還需要選購的藍芽介面 （KCE-400BT）。*

本機可使用的 iPhone/iPod 機型

- 本機可以與以下 iPhone/iPod 機型配合使用。

iPhone 3G （版本 2.0）
iPhone （版本 1.1.4）
iPod touch （版本 1.0.4）
iPod classic （版本 1.1.1）
iPod nano （第 3 代）（版本 1.1）
iPod nano （第 2 代）（版本 1.1.3）
iPod with video （版本 1.2.3）
iPod nano （第 1 代）（版本 1.3.1）

- 為了明確識別 iPod 機型，請參閱 http://support.apple.com/kb/HT1353 中 Apple 公司的文件 "Identifying iPod models"。
- 如果本機與版本早於7.6 的iTunes配合使用，不保證正確功能和性能。
- 即使使用視訊相容電纜，本機仍不支援 iPhone/iPod 的視訊播放。

播放

1 按 **SOURCE/⏻** 切換到 **USB iPod** 模式。

TUNER → DISC → USB AUDIO*1/USB iPod*2 → BT AUDIO*3/AUX+*4 → CHANGER*5 → TUNER

*1 *僅當沒有連接 iPhone/iPod 時顯示。*
*2 *僅當連接了 iPhone/iPod 時顯示。*
*3 *僅當 BLUETOOTH IN 設定為 ADAPTE 時顯示，請參閱 "設定藍芽連接"（第 16 頁）。*
*4 *僅當 AUX+ SETUP 設定為 ON 時顯示，請參閱 "設定 AUX+ SETUP 模式"（第 17 頁）。*
*5 *僅當連接了 CD 換碟機時。*

2 按 ◀◀ 或 ▶▶ 選擇想要的歌曲。

返回當前歌曲的起點：
按 ◀◀。

在當前的歌曲中快退：
按住 ◀◀。

跳到下一首歌曲的起點：
按 ▶▶。

在當前的歌曲中快進：
按住 ▶▶。

3 若要暫停播放，按 ▶/II。
再次按 ▶/II 將恢復播放。

- *將 iPhone/iPod 連接至本機播放其中的歌曲時，歌曲會從斷開連接時暫停的地方開始繼續播放。*
- *如果您正在聆聽 podcast 或 有聲書的插曲，可按◀ 或▶ 來更插曲。*
- *一個插曲可能包含多個章節。可按 ◀◀ 或▶▶ 來切換章節。*

搜尋想要的歌曲

iPhone/iPod 可以容納數百首歌曲。透過使用檔案標記資訊並將這些歌曲組織在播放清單中，本機的搜尋功能可輕鬆進行歌曲搜尋。每個音樂類別有其各自的等級。使用 PLAYLIST/ARTIST/ALBUM/SONG/PODCAST/GENRE/COMPOSER/AUDIOBOOK 搜尋模式根據下表縮小搜尋範圍。

等級 1	等級 2	等級 3	等級 4
播放清單 (PLAYLIST)	歌曲	—	—
歌手 (ARTIST)*	專輯 *	歌曲	—
專輯 (ALBUM)*	歌曲	—	—
歌曲 (SONG)	—	—	—
PODCAST	插曲	—	—
音樂風格 (GENRE)*	歌手 *	專輯 *	歌曲
作曲者 (COMPOSER)*	專輯 *	歌曲	—
有聲書 (AUDIOBOOK)	—	—	—

例如：按歌手姓名搜尋
以下舉例說明如何執行 ARTIST （歌手）搜尋。儘管等級不同，其他搜尋模式也可以使用相同的操作。

1 按 🔍 **/ENT** 啓動搜尋選擇模式。

2 旋轉 **Rotary encoder** 選擇 **ARTIST**（歌手）搜尋模式，然後按 🔍 **/ENT**。

PLAYLIST ↔ ARTIST ↔ ALBUM ↔ SONG ↔ PODCAST ↔ GENRE ↔ COMPOSER ↔ AUDIOBOOK ↔ PLAYLIST

3 旋轉 **Rotary encoder** 選擇想要的歌手，然後按 🔍 **/ENT**。

4 旋轉 **Rotary encoder** 選擇專輯，然後按 🔍 **/ENT**。

5 旋轉 **Rotary encoder** 選擇歌曲，然後按 🔍 **/ENT**。
所選的歌曲會播放。

- *在各個等級（SONG 與 AUDIOBOOK 等級除外）中按住 🔍 /ENT 至少 2 秒鐘後，將播放所選等級中的所有歌曲。*
- *在帶有 "*" 的搜尋模式中選擇 [ALL] 後，按住 🔍 /ENT 至少 2 秒鐘播放 iPhone/iPod 或所選搜尋模式中的所有歌曲。*
- *在搜尋模式中，如果您按住 ⮌ /ESC 至少 2 秒鐘，或者 30 秒不執行任何操作，搜尋模式將被取消。*
- *在搜尋模式中，按 ⮌ /ESC 返回先前的模式。*
- *在 M.I.X. 播放時搜尋，便會取消 M.I.X. 播放模式。*
- *如果在 PLAYLIST 搜尋模式中選擇的播放清單中沒有歌曲，將顯示 "NO SONG"。*
- *如果在 PODCAST 搜尋模式的 iPhone/iPod 中沒有 podcast 資料，將顯示 "NO PODCAST"。*
- *如果在 AUDIOBOOK 搜尋模式中 iPhone/iPod 中沒有有聲書資料，將顯示 "NO AUDIOBOOK"。*
- *如果在想要的播放清單搜尋模式中選擇儲存在 iPod 中的 "iPod name"，並且按 🔍 /ENT ，您可以搜尋 iPod 中的所有歌曲。另外，如果按住 🔍 /ENT 至少 2 秒鐘，將播放 iPhone/ iPod 中的所有歌曲。*
- *視 iPhone/ iPod 而定，可能不支援 podcast 搜尋。*
- *如果在搜尋模式中啓動了字母搜尋功能，可以透過字母搜尋功能進行快速搜尋以找到想要的歌手或歌曲等。詳情請參閱第 20 頁的 "字母搜尋功能"。*
- *如果在搜尋模式中按任一預設按鈕 （1 至 6），便可透過跳到指定位置快速進行搜尋。詳情請參閱第 20 頁的 "直接搜尋功能"。*
- *如果在搜尋模式中 30 秒鐘沒有執行任何操作，本機將返回到正常模式。*

快速搜尋

您可以從 iPhone/iPod 內的所有歌曲中搜尋，不需選擇專輯、歌手等。

1 按住 🔍**/ENT** 至少 **2** 秒鐘即可啓動快速搜尋模式。

2 旋轉 **Rotary encoder** 選擇想要的歌曲。
所選的歌曲會立即播放。

- *在搜尋模式中，如果您按* ⮌ */ESC，或者如果 10 秒鐘不執行任何操作，搜尋模式將被取消。*
- *如果 iPhone/iPod 內有許多歌曲，則搜尋歌曲需要一段時間。*
- *如果在搜尋模式中按任一預設按鈕（1 至 6），便可透過跳到指定位置快速進行搜尋。詳情請參閱第 20 頁的 "直接搜尋功能"。*
- *此功能在重複（⮍）播放時無效。*

直接搜尋功能

本機的直接搜尋功能可以更加高效地搜尋專輯、歌曲等。在播放清單 / 歌手 / 專輯 / 歌曲 /Podcast/ 音樂風格 / 作曲者 / 有聲書模式中，您可以快速搜尋任何歌曲。

在搜尋模式中，按任一**預設按鈕**（**1** 至 **6**）快速跳過指定百分比的歌曲內容。
歌曲搜尋示例：
如果您的 iPhone/iPod 中有 100 首歌曲，這些歌曲以百分比分爲 6 組（如下所示）。這些群組被指定到預設按鈕 1 至 6。

示例 1：
假設您要搜尋的歌曲位於歌曲庫的中間（50%）附近：按按鈕 4 跳到第 50 首歌曲，然後旋轉 Rotary encoder 找到想要的歌曲。

示例 2：
假設您要搜尋的歌曲位於歌曲庫的結尾（83%）附近：按按鈕 6 跳到第 83 首歌曲，然後旋轉 Rotary encoder 找到想要的歌曲。

	全部 100 首歌曲（100%）					
	0%	17%	33%	50%	67%	83%
預設按鈕	1	2	3	4	5	6
歌曲	第 1 首歌曲	第 17 首歌曲	第 33 首歌曲	第 50 首歌曲	第 67 首歌曲	第 83 首歌曲

選擇播放清單 / 歌手 / 專輯 / 音樂風格 / 作曲者

播放清單 / 歌手 / 專輯 / 音樂風格 / 作曲者可以輕鬆更改。
例如，如果您聆聽所選專輯中的歌曲，專輯可以更改。

按 ◀ 或 ▶ 選擇想要的播放清單 / 歌手 / 專輯 / 音樂風格 / 作曲者。

- *如果歌曲搜尋模式用於選擇歌曲，則此功能無效。*
- *如果在歌手搜尋時選擇一個專輯，則該歌手的其他專輯也可搜尋。*
- *此功能在隨機（⤮）播放時無效。*

字母搜尋功能

首字母搜尋功能可跳到下一個數字、符號或字母，例如從 A 到 B，從 B 到 C。
您也可以按 ◀ 以相反順序略過，例如從 B 到 A。

在搜尋模式中，按 ◀ 或 ▶ 執行字母搜尋功能。
清單跳到下一個數字、符號或字母。

- *如果按住 ◀ 或 ▶，則顯示連續改變。*

隨機播放（M.I.X.）

iPhone/iPod 的隨機功能在本機上顯示為 。

隨機播放專輯：
各專輯上的歌曲依適當順序進行播放。專輯上的所有歌曲一旦播放完畢，隨機選擇下一張專輯。直到播放完所有專輯。

隨機播放歌曲：
歌曲隨機播放將播放所選類別（播放清單、專輯等）中的歌曲。類別中的歌曲僅播放一次直至所有的歌曲被播放。

1 按 **5** 。
歌曲以隨機順序播放。

→ → (off) →
（隨機播放專輯） （隨機播放歌曲）

2 若要取消 **M.I.X.** 播放，按以上方法選擇（**off**）。

- *如果在選擇 M.I.X. 播放以前在專輯搜尋模式中選擇了歌曲，則即使選擇隨機播放專輯也不會隨機播放歌曲。*

隨機播放 **ALL**：
隨機播放 ALL 將隨機播放 iPhone/iPod 中的所有歌曲。一首歌曲只有在所有歌曲播放完畢以後才會再次播放。

1 按 **6**。
歌曲以隨機順序播放。

→ (off) →
（隨機播放 ALL）

2 若要取消 **M.I.X.** 播放，按以上方法選擇（**off**）。

- *如果選擇隨機播放 ALL，則在搜尋模式中播放的所選歌曲將被取消。*

重複播放

iPhone/iPod 只有重複一首可用。

重複一首：
重複播放一首歌曲。

1 按 **/4**。
重複播放歌曲。

→ (off) →
（重複一首）

2 若要取消重複播放，按以上方法選擇（**off**）。

- *在重複播放時，無法經由按* ◀◀ *或* ▶▶ *選擇其他歌曲。*

顯示文字

您可以顯示 iPhone/iPod 中歌曲的標記資訊。

按 **VIEW**。
每按一次，顯示都會改變。

- *當 TEXT SCROLL 設定為 MANU 時，請按住 **VIEW** 至少 2 秒鐘，便可捲動一次當前的文字。*

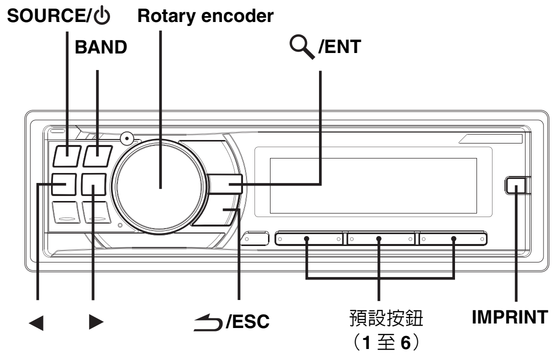
  曲目編號 / 已播放時間 → 曲目編號 / 時鐘→ 歌手姓名 * → 專輯名稱 * → 歌曲名稱 * → 曲目編號 / 已播放時間

* *TAG 資訊*
如果沒有標記資訊，便會顯示 "ARTIST"/"ALBUM"/"SONG"。

- *只能顯示字母與數字字元（ASCII）。*
- *如果在 iTunes 中建立的歌手、專輯或歌曲名稱中字元過多，則當連接到轉接器時歌曲可能無法播放。因此，建議字元數最多為 70。主機的字元最多數為 70（70 位元組）。*
- *有些字元可能無法正常顯示。*
- *當本機不支援文字資訊時，將顯示 "NO SUPPORT"。*

IMPRINT 操作方式（選購）

Alpine 引進 IMPRINT - 全球第一技術，徹底解決劣化音質的汽車音響問題。讓我們能體驗歌手的原創音樂，請參閱“關於 IMPRINT”（第 29 頁）。
當 IMPRINT 音訊處理器（PXA-H100）（另售）連接至本機時，便可執行 MultEQ 與以下聲音調節功能。



切換 MultEQ 模式

由 Audyssey Labs 研發的 MultEQ 會自動校正聆聽環境的音訊。針對在車內選擇的位置最優化該系統。為了達到此目的，MultEQ 必須先測量汽車響應特性。有關設定程序的詳細資訊，請諮詢您的 Alpine 授權經銷商。

按住 **IMPRINT** 至少 **2** 秒鐘將切換 **MultEQ** 模式。

MULTEQ OFF （手動模式）→ CURVE 1 (MultEQ-1) → CURVE 2 (MultEQ-2) → MULTEQ OFF （手動模式）

- *只有在儲存 curve 1 與 curve 2 時才能選擇 Curve 模式。*
- *使用 MultEQ 時，會自動設定 MEDIAXPANDER、MX LEV MODE、CROSSOVER、T.CORR PARA、FACTORY'S EQ、SUBW PHASE、SUBW CHANNEL、TW SETUP、EQ MODE、FILTER TYPE 和 PARAMETER EQ/GRAPHIC EQ。用戶無法調節這些設定。*
- *當連接外接音訊處理器時，無法使用 MultEQ 功能。*

在 MultEQ 模式中調節重低音等級 / 低音等級 / 高音等級 / 衰減（前後之間）/ 平衡（左右之間）

您可在 MultEQ （CURVE 1 或 CURVE 2）模式中改變這些設定以建立自己喜好的設定。

1 按 **IMPRINT** 啓動 **MultEQ** 調節模式。

2 旋轉 **Rotary encoder** 選擇想要的項目，然後按 **/ENT**。

SUBW LEVEL*[1] ↔ BASS LEVEL ↔ TREBLE LEVEL ↔ FADER*[2] ↔ BALANCE ↔ SUBW LEVEL

3 旋轉 **Rotary encoder** 更改如下設定，然後按 **/ENT**。

重低音等級：+0 ～ +15
低音等級：-7 ～ +7
高音等級：-7 ～ +7
衰減：R15 ～ F15
平衡：L15 ～ R15

- *選擇 SUBW LEVEL、BASS LEVEL、TREBLE LEVEL、FADER 或 BALANCE 模式，如果 60 秒鐘沒有執行任何操作，本機將自動返回到正常模式。*

*[1] *當 SUBWOOFER 模式設為 OFF 時，便無法調節其等級，且無法在 MultEQ （CURVE 1 或 CURVE 2）模式中調節 SUBWOOFER ON/OFF 功能。*
*[2] *如果您將 IMPRINT 音訊處理器（PXA-H100）的 2.2ch (3WAY)/4.2ch (FRONT/REAR/SUBW.) 開關設為 2.2ch (3WAY)，便無法調節 FADER 模式。詳情請參閱 PXA-H100 的用戶手冊。*

- *視連接的裝置而定，某些功能與顯示指示無法運作。*

在手動模式中調節聲音設定

您可以在 MultEQ 模式設為 MULTEQ OFF （手動模式）時，更改這些聲音設定以建立自己喜好設定。

使用步驟 **1** 至 **4** 選擇任一種聲音選單模式進行調整。有關所選項目的詳細資訊，請參閱以下適用章節。

1 按 **IMPRINT** 啓動聲音選單選擇模式。

2 旋轉 **Rotary encoder** 選擇想要的項目，然後按 **/ENT**。

SUBWOOFER ↔ SUBW SYSTEM*1 ↔ SUBW PHASE*1 ↔ SUBW CHANNEL*1 ↔ FACTORY'S EQ ↔ TW SETUP*2 ↔ FILTER TYPE ↔ MEDIAXPANDER ↔ MX LEV MODE*3 ↔ EQ MODE ↔ T.CORR PARA ↔ SOUND ADJUST*4 ↔ SUBWOOFER
（例如選擇 SUBWOOFER）

*1 *當 SUBWOOFER 設定為 OFF 時，無法使用這些功能。*
*2 *只有在連接 PXA-H100（另售）並被設為 2.2ch (3WAY) 模式時才能使用此功能。詳情請參閱 PXA-H100 的用戶手冊。*
*3 *當 MEDIAXPANDER 設定為 OFF 時，無法使用此功能。*
*4 *在步驟 2 中，可在 SOUND ADJUST 模式中選擇三種聲音調節項目 （PARAMETER EQ/GRAPHIC EQ 、T.CORRECTION 、CROSSOVER），旋轉 Rotary encoder 選擇想要的項目，然後按 /ENT 繼續進行步驟 3。*

3 旋轉 **Rotary encoder** 更改設定，然後按 **/ENT**。

（例如選擇 SUBW ON 或 SUBW OFF）

4 按住 **/ESC** 至少 **2** 秒鐘將返回正常模式。

- *當 DEFEAT 設為 ON 時，MEDIAXPANDER FACTORY'S EQ 、PARAMETER EQ/GRAPHIC EQ、EQ MODE 和 MX LEV MODE 調節均無法使用。*
- *按 /ESC 將返回先前的聲音選單模式。*
- *如果 60 秒鐘沒有執行任何操作，即取消聲音選單模式。*

開啓 / 關閉重低音揚聲器

當重低音揚聲器開啓時，您可調節重低音揚聲器的輸出等級 （請參閱第 12 頁）。

SUBW OFF ↔ SUBW ON （初始設定）

設定重低音揚聲器系統

當重低音揚聲器啓動時，您可選擇想要的 System1 或 System2 重低音揚聲器效果。

SUBW SYS 1 （初始設定）↔ SUBW SYS 2

SUBW SYS 1: 重低音揚聲器的音量隨主音量設定改變。
SUBW SYS 2: 重低音揚聲器的音量變化與主音量設定不同。例如，即使音量設定爲低時，依然能夠聽見重低音揚聲器的聲音。

設定重低音揚聲器相位

NORMAL （初始設定）↔ REVERSE

重低音揚聲器輸出相位設定爲 SUBWOOFER NORMAL (0°) 或 SUBWOOFER REVERSE (180°)。若要調節等級，旋轉 **Rotary encoder**。

設定重低音揚聲器聲道 （SUBW CHANNEL）

您可以將重低音揚聲器輸出設定爲立體聲或單聲道。務必爲重低音揚聲器類型設定正確的輸出。

STEREO （初始設定）↔ MONO

STEREO: 重低音揚聲器立體聲 （L/R）輸出
MONO: 重低音揚聲器單聲道輸出

均衡器預設 （FACTORY'S EQ）

出廠時會預設 10 種典型均衡器設定，供多種音源素材使用。

FLAT ↔ POPS ↔ ROCK ↔ NEWS ↔ JAZZ&BLUES ↔ ELEC DANCE ↔ HIP HOP&RAP ↔ EASY LISTEN ↔ COUNTRY ↔ CLASSICAL ↔ USER 1 ↔ USER 2 ↔ USER 3 ↔ USER 4 ↔ USER 5 ↔ USER 6

- *透過選擇 USER 1 至 6，您可以調出 "調節圖形式均衡器曲線" （第 25 頁）或 "調節參數式均衡器曲線"（第 24 頁）中儲存的預設號碼。*

設定高頻範圍揚聲器的響應斜率 （TW SETUP）

在 2.2ch (3WAY) 模式中將高音揚聲器的響應特性設定爲 FLAT 可能會損壞揚聲器。請確保分頻器截止頻率適合正在使用的高音揚聲器 （請參閱第 25 頁的 "調節分頻器設定"）。

MAKER'S （初始設定）↔ USER'S

MAKER'S: 爲了避免揚聲器可能損壞，無法在 2.2ch (3WAY) 模式中將高頻範圍揚聲器的響應斜率設定爲 FLAT。
USER'S: 在 2.2ch (3WAY) 模式中，可進行 FLAT 設定。

設定濾波器類型

NORMAL （初始設定）↔ INDIVIDUAL

NORMAL (L=R): 為左右揚聲器做相同調節。
INDIVIDUAL (L/R): 分別調節左右揚聲器。

開啓 / 關閉 Media Xpander

當 Media Xpander 開啓時，您可調節 Media Xpander 的等級 （請參閱第 24 頁）。

MX OFF （初始設定）↔ MX ON

設定 MX 等級

不管音源為何，MX (MEDIAXPANDER) 能讓歌聲或樂器聲音更清晰。即使在伴隨著馬路上嘈雜聲的車內，FM 無線電、CD, USB 記憶體和 iPhone/iPod 還是能夠清楚地重現音樂。

改為您想使用 **Media Xpander** 的訊號源。

FM （MX 等級 1 至 3）：
中頻至高頻變得更清晰，並在所有的頻率間產生良好的平衡聲音。

CD （MX 等級 1 至 3）：
播放期間，CD 模式處理大量資料。MX 利用大量資料處理，重現更清楚、清晰的輸出。

CMPM （MX 等級 1 至 3）：
可校正在壓縮時遺失的資訊。重現接近原音的良好平衡聲音。

DVD （視訊 CD）
（MOVIE MX 等級 1 至 2）：
使視訊的對話部分更清楚。

（DVD MUSIC）：
DVD 或視訊 CD 包含大量資料，例如音樂錄影帶。MX 使用該資料精確重現聲音。

AUX （MX 等級 1）：
選擇符合所連接媒體的 MX 模式 （CMPM、MOVIE 或 MUSIC）。

- *每個音源，例如 FM 無線電、CD 和 MP3/WMA/AAC，可擁有自己的 MX 設定。*
- *在含有 MP3/WMA/AAC 和 CD-DA 的光碟上，從 "MP3/WMA/AAC 至 CD-DA" 或從 "CD-DA 至 MP3/WMA/AAC" 更改音源時，MX 模式切換可能會稍微滯延播放。*
- *EFFECT OFF 設定會將每個音源的 MX 模式設為 OFF。*
- *當 DEFEAT 設定為 ON 時，無法使用此功能。*
- *AM 無線電沒有 MX 模式。*
- *如果連接了具有 MX 功能 （PXA-H701 等）的音訊處理器，其 MX 處理器會應用在音源上。由於處理器 MX 設定可能不符合主機，所以需要調節音訊處理器。詳情請參閱音訊處理器的用戶手冊。*
- *"CMPM" 適用於 MP3/WMA/AAC 和 iPhone/iPod。*

設定 EQ 模式

本設定有 5 波段參數式，或 7 波段圖形式均衡器供您選擇。

PARAMETER EQ （初始設定）↔ GRAPHIC EQ

PEQ：5 波段參數式 EQ
GEQ：7 波段圖形式 EQ

設定時間校正單位 （T.CORR PARA）

您可以更改時間校正的單位 （cm 或 inch）。

CM （初始設定）↔ INCH

音域調節 （SOUND ADJUST）

可在此模式中調節 PARAMETER EQ/GRAPHIC EQ、T.CORRECTION 與 CROSSOVER 的設定。

調節參數式均衡器曲線

您可修改均衡器設定，使響應曲線更符合自己的喜好。若要調節參數式均衡器曲線，將 EQ MODE 設定為 PARAMETER EQ。詳情請參閱 "設定 EQ 模式"（第 24 頁）。

1 **從 SOUND ADJUST 模式選擇 PARAMETER EQ 後，按 BAND 選擇需調節的波段。**

B 1 → B 2 → B 3 → B 4 → B 5 → B 1

2 **按◀ 或▶ 選擇頻率波段。**
可調節的頻率波段：
20 Hz 至 20 kHz （以 1/3 個八度音階為單位）

Band-1: 20 Hz~80 Hz （63 Hz）
Band-2: 50 Hz~200 Hz （150 Hz）
Band-3: 125 Hz~3.2 kHz （400 Hz）
Band-4: 315 Hz~8 kHz （1 kHz）
Band-5: 800 Hz~20 kHz （2.5 kHz）

3 **旋轉 Rotary encoder 調節電平。**
可調節的電平：-6 至 +6 dB

4 **按 SOURCE/⏻ 設定頻寬 （Q）。**
可調節的頻寬：1、1.5、3

5 **若要調節其他波段，重複步驟 1 至 4 並調節所有波段。**

- *鄰近波段的頻率無法在 4 個單位內調節。*
- *調節 PARAMETER EQ 時，您必須考慮所連接揚聲器的頻率響應。*

調節圖形式均衡器曲線

您可修改均衡器設定，使響應曲線更符合自己的偏好。若要調節圖形式均衡器曲線，將 EQ MODE 設定為 GRAPHIC EQ。詳情請參閱 "設定 EQ 模式"（第 24 頁）。

1 從 **SOUND ADJUST** 模式選擇 **GRAPHIC EQ** 後，按 **BAND** 選擇需調節的波段。

B 1 → B 2 → B 3 → B 4 → B 5 → B 6 → B 7 → B 1

Band-1 (63 Hz) / Band-2 (150 Hz) / Band-3 (400 Hz) / Band-4 (1 kHz) / Band-5 (2.5 kHz) / Band-6 (6.3 kHz) / Band-7 (17.5 kHz)

2 旋轉 **Rotary encoder** 調節電平。
可調節的輸出電平：–6 至 +6 dB

3 若要調節其他波段，重複步驟 **1** 和 **2**，然後調節所有波段。

調節時間校正

執行以下操作前，請參閱 "關於時間校正"（第 27 頁）。

1 從 **SOUND ADJUST** 模式選擇 **T.CORRECTION** 後，按 **BAND** 選擇需調節的揚聲器。

2.2ch (3WAY) 系統

F-L（初始設定）（左中） → F-R（右中） → R-L（左高） → R-R（右高） →
SW-L → SW-R → F-L（左中）

4.2ch (FRONT/REAR/SUBW.) 系統

F-L（初始設定）（左前） → F-R（右前） → R-L（左後） → R-R（右後） →
SW-L → SW-R → F-L（左前）

2 旋轉 **Rotary encoder** 調節距離校正值（**0.0** 至 **336.6cm**）。

L =（至最遠揚聲器的距離）−（至其他揚聲器的距離）

詳情請參閱第 27 頁的 "時間校正值清單"。

3 重複步驟 **1** 與 **2**，設定其他揚聲器。
設定這些數值，可讓其聲音與其他揚聲器的聲音同時傳送到聆聽位置。

調節分頻器設定

執行以下操作前，請參閱 "關於分頻器"（第 28 頁）。

2.2ch (3WAY) 系統

1 從 **SOUND ADJUST** 模式選擇 **CROSSOVER** 後，按 **BAND** 選擇需調節的波段。

2.2ch (3WAY) 系統 / NORMAL (L=R)

設定項目：
LOW / M-L / M-H / HIGH

2.2ch (3WAY) 系統 / INDIVIDUAL (L/R)

設定項目：
L-L / L-R / ML-L / ML-R / MH-L / MH-R / H-L / H-R

2 按 ◀ 或 ▶ 選擇想要的截止頻率（分頻點）。
可調節的頻率波段：

2.2ch (3WAY) 系統

設定項目：

LOW / M-L	20 Hz~200 Hz
M-H	20 Hz~20 kHz
HIGH	(1 kHz~20 kHz)*1/(20 Hz~20 kHz)*2

**1 選擇 MAKER'S 時，請參閱 "設定高頻範圍揚聲器的響應斜率（TW SETUP）"（第 23 頁）。*
**2 選擇 USER'S 時，請參閱 "設定高頻範圍揚聲器的響應斜率（TW SETUP）"（第 23 頁）。*

3 按 **SOURCE/⏻** 調節斜率。
可調節的斜率： FLAT*, 6 dB/oct., 12 dB/oct., 18 dB/oct., 24 dB/oct.

** 僅當在 "設定高頻範圍揚聲器的響應斜率（TW SETUP）"（第 23 頁）中選擇了 USER'S 時，HIGH 斜率才可設定為 FLAT。視揚聲器的響應特性而定，將響應斜率設定為 FLAT 時必須小心，因為可能造成揚聲器的損壞。使用本機，當高頻範圍揚聲器的響應斜率設定為 FLAT 時，會顯示訊息。*

4 旋轉 **Rotary encoder** 調節輸出電平。
可調節的輸出電平：–12 至 0 dB。

5 重複步驟 **1** 至 **4**，對其他波段進行調節。

4.2ch (FRONT/REAR/SUBW.) 系統

1 從 **SOUND ADJUST** 模式選擇 **CROSSOVER** 後，按 **BAND** 選擇需調節的波段。

4.2ch (FRONT/REAR/SUBW.) 系統 / NORMAL (L=R)

設定項目：
LOW (SUB-W) / MID (REAR) / HIGH (FRONT)

4.2ch (FRONT/REAR/SUBW.) 系統 / INDIVIDUAL (L/R)

設定項目：
L (SUB-W)-L / L (SUB-W)-R / M (REAR)-L / M (REAR)-R / H (FRONT)-L / H (FRONT)-R

2 按 ◀ 或 ▶ 選擇想要的截止頻率（分頻點）。
可調節的頻率波段：

4.2ch (FRONT/REAR/SUBW.) 系統

設定項目：
20 Hz~200 Hz

3 按 **SOURCE/⏻** 調節斜率。
可調節的斜率：FLAT, 6 dB/oct., 12 dB/oct., 18 dB/oct., 24 dB/oct.

4 旋轉 **Rotary encoder** 調節輸出電平。
可調節的輸出電平：–12 至 0 dB。

5 重複步驟 **1** 至 **4**，對其他波段進行調節。

- *調節 CROSSOVER 時，您必須考慮所連接揚聲器的頻率響應。*
- *關於 2.2ch (3WAY)/4.2ch (FRONT/REAR/SUBW.) 系統*
  您可使用 PXA-H100 的 2.2ch (3WAY)/4.2ch (FRONT/REAR/SUBW.) 開關切換至 2.2ch (3WAY)/4.2ch (FRONT/REAR/SUBW.) 系統模式。詳情請參閱 PXA-H100 的用戶手冊。

儲存音域調節設定

SOUND ADJUST 設定包括 PARAMETER EQ/GRAPHIC EQ、T.CORRECTION 與 CROSSOVER 設定能夠被儲存在預設記憶中。

1 完成 **SOUND ADJUST** 設定時，請在任一項 **SOUND ADJUST** 模式（例如 **CROSSOVER**）中，選擇任一個**預設按鈕**（**1** 至 **6**），按住想要的預設按鈕至少 **2** 秒鐘。

2 旋轉 **Rotary encoder** 選擇 **PROTECT YES/NO**，然後按 🔍 **/ENT** 儲存調節的內容。

PROTECT YES（初始設定）↔ PROTECT NO

- *如果選擇 YES，調節的內容受到保護並儲存至預設按鈕。當您要將參數儲存至受保護的預設按鈕時，可選擇 "REPLACE NO/YES"。*
- *如果選擇 NO，預設被儲存。*
- *執行此操作時，PARAMETER EQ/GRAPHIC EQ、T.CORRECTION 與 CROSSOVER 所有調節過的內容都會儲存到預設按鈕。*
- *即使重設本機或斷開與電瓶的連接，儲存的內容也不會被刪除。*
- *透過執行 "調出儲存的音域調節設定"（第 26 頁）中執行操作，可調出儲存內容。*

調出儲存的音域調節設定

儲存的SOUND ADJUST設定包括PARAMETER EQ/GRAPHIC EQ、T.CORRECTION與CROSSOVER設定能夠被儲存在預設記憶體中。

1 選擇任一項**SOUND ADJUST**模式（例如**CROSSOVER**）後，按下具有您所需記憶體特性的任一個**預設按鈕**（**1** 至 **6**）而調出儲存設定。

2 再按一次**預設按鈕**返回 **SOUND ADJUST** 模式。

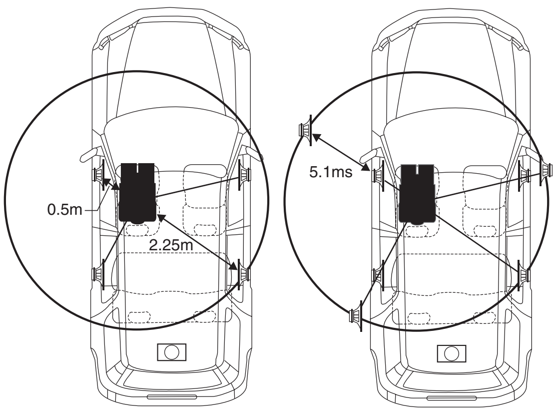
- *執行此操作時，會調出所有儲存在預設按鈕上的 PARAMETER EQ/GRAPHIC EQ、T.CORRECTION 與 CROSSOVER 的調節內容。*

關於時間校正

在車內，聽聽者與揚聲器之間的距離視複合揚聲器放置的位置而有相當大的差異。聆聽者與揚聲器之間距離的差異，會在聲音影像和頻率特性中產生轉移。這是由聲音傳達到聆聽者的右耳與左耳之間所產生的時間滯延而引起的。
為了校正該問題，本機能夠延遲傳達至最接近聆聽者的揚聲器的音訊。這會使聆聽者感到與揚聲器之間的距離增加。聆聽者可坐在左右揚聲器的正中央，以獲得最佳音域。
以 3.4cm 為單位，為每個揚聲器進行調節。

示例 1 聆聽位置：左前排座椅

將左前揚聲器的時間校正等級調高，將右後揚聲器的時間校正等級調為零或調低。



聲音不平衡，因為聆聽位置與多個揚聲器之間的距離不同。
左前揚聲器和右後揚聲器的距離差為 1.75 m。
我們計算在上方圖示中左前揚聲器的時間校正值。

條件：
最遠的揚聲器－聆聽位置：2.25 m
左前揚聲器－聆聽位置：0.5 m
計算：L = 2.25 m － 0.5 m = 1.75 m
時間校正 = 1.75 ÷ 343*1 × 1000 = 5.1 (ms)

*1 *聲音速度：20°C 時，343 m/s （765 mph）*

換句話說，將左前揚聲器的時間校正值設定為 5.1 ms，能讓其與聆聽者的距離就像和聆聽者與最遠的揚聲器的距離相同。

時間校正能消除聲音傳達到聆聽位置所需的時間差異。
將左前揚聲器的時間校正為 5.1 ms，使其聲音傳達至聆聽位置的時間與其他揚聲器傳達至聆聽位置的時間相同。

示例 2 聆聽位置：全部座椅

將每個揚聲器的時間校正等級調節至大致相同。

1 坐在聆聽位置（駕駛座等）並測量頭部和多個揚聲器之間的距離 （以公尺為單位）。

2 計算至最遠的揚聲器和至其他揚聲器之間的距離校正值差。

L = （至最遠揚聲器的距離）－（至其他揚聲器的距離）

這些數值為不同揚聲器的時間校正值。設定這些數值，可讓其聲音與其他揚聲器的聲音同時傳送到聆聽位置。

時間校正值清單

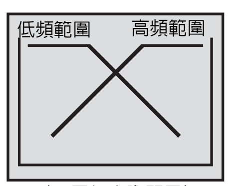
滯延數數	時間差異 (ms)	距離 (cm)	距離 (inch)	滯延數數	時間差異 (ms)	距離 (cm)	距離 (inch)
0	0.0	0.0	0.0	51	5.1	173.4	68.3
1	0.1	3.4	1.3	52	5.2	176.8	69.7
2	0.2	6.8	2.7	53	5.3	180.2	71.0
3	0.3	10.2	4.0	54	5.4	183.6	72.4
4	0.4	13.6	5.4	55	5.5	187.0	73.7
5	0.5	17.0	6.7	56	5.6	190.4	75.0
6	0.6	20.4	8.0	57	5.7	193.8	76.4
7	0.7	23.8	9.4	58	5.8	197.2	77.7
8	0.8	27.2	10.7	59	5.9	200.6	79.1
9	0.9	30.6	12.1	60	6.0	204.0	80.4
10	1.0	34.0	13.4	61	6.1	207.4	81.7
11	1.1	37.4	14.7	62	6.2	210.8	83.1
12	1.2	40.8	16.1	63	6.3	214.2	84.4
13	1.3	44.2	17.4	64	6.4	217.6	85.8
14	1.4	47.6	18.8	65	6.5	221.0	87.1
15	1.5	51.0	20.1	66	6.6	224.4	88.4
16	1.6	54.4	21.4	67	6.7	227.8	89.8
17	1.7	57.8	22.8	68	6.8	231.2	91.1
18	1.8	61.2	24.1	69	6.9	234.6	92.5
19	1.9	64.6	25.5	70	7.0	238.0	93.8
20	2.0	68.0	26.8	71	7.1	241.4	95.1
21	2.1	71.4	28.1	72	7.2	244.8	96.5
22	2.2	74.8	29.5	73	7.3	248.2	97.8
23	2.3	78.2	30.8	74	7.4	251.6	99.2
24	2.4	81.6	32.2	75	7.5	255.0	100.5
25	2.5	85.0	33.5	76	7.6	258.4	101.8
26	2.6	88.4	34.8	77	7.7	261.8	103.2
27	2.7	91.8	36.2	78	7.8	265.2	104.5
28	2.8	95.2	37.5	79	7.9	268.6	105.9
29	2.9	98.6	38.9	80	8.0	272.0	107.2
30	3.0	102.0	40.2	81	8.1	275.4	108.5
31	3.1	105.4	41.5	82	8.2	278.8	109.9
32	3.2	108.8	42.9	83	8.3	282.2	111.2
33	3.3	112.2	44.2	84	8.4	285.6	112.6
34	3.4	115.6	45.6	85	8.5	289.0	113.9
35	3.5	119.0	46.9	86	8.6	292.4	115.2
36	3.6	122.4	48.2	87	8.7	295.8	116.6
37	3.7	125.8	49.6	88	8.8	299.2	117.9
38	3.8	129.2	50.9	89	8.9	302.6	119.3
39	3.9	132.6	52.3	90	9.0	306.0	120.6
40	4.0	136.0	53.6	91	9.1	309.4	121.9
41	4.1	139.4	54.9	92	9.2	312.8	123.3
42	4.2	142.8	56.3	93	9.3	316.2	124.6
43	4.3	146.2	57.6	94	9.4	319.6	126.0
44	4.4	149.6	59.0	95	9.5	323.0	127.3
45	4.5	153.0	60.3	96	9.6	326.4	128.6
46	4.6	156.4	61.6	97	9.7	329.8	130.0
47	4.7	159.8	63.0	98	9.8	333.2	131.3
48	4.8	163.2	64.3	99	9.9	336.6	132.7
49	4.9	166.6	65.7				
50	5.0	170.0	67.0				

關於分頻器

分頻器（**X-OVER**）：
本機配備有源分頻器。分頻器限制傳送至輸出的頻率。每個頻道皆單獨控制。因此，各組揚聲器可由符合它們最佳化設計的頻率驅動。分頻器調節每個波段的 HPF（高通濾波器）或 LPF（低通濾波器），以及斜率（濾波器通過高點與低點的速度）。
必須根據揚聲器的重現特性進行調節。視揚聲器而定，可能不需要無源網路。如果不確定，請諮詢您的 Alpine 授權經銷商。

4.2ch（FRONT/REAR/SUBW.）模式

	截止頻率（以 **1/3** 個八度音階為單位）		斜率		電平
	HPF	**LPF**	**HPF**	**LPF**	
低頻範圍揚聲器	----	20 Hz - 200 Hz	----	FLAT, 6, 12, 18, 24 dB/oct.	0 至 -12 dB
後高頻範圍揚聲器	20 Hz - 200 Hz	----	FLAT, 6, 12, 18, 24 dB/oct.	----	0 至 -12 dB
前高頻範圍揚聲器	20 Hz - 200 Hz	----	FLAT, 6, 12, 18, 24 dB/oct.	----	0 至 -12 dB

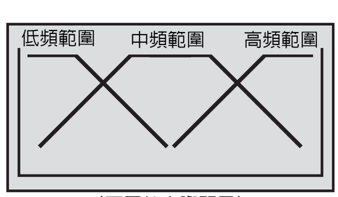


（不同於實際顯示）

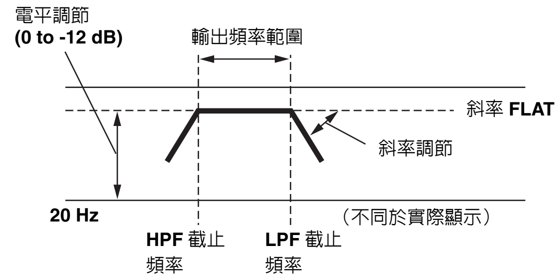
2.2ch（3WAY）模式

	截止頻率（以 **1/3** 個八度音階為單位）		斜率		電平
	HPF	**LPF**	**HPF**	**LPF**	
低頻範圍揚聲器	----	20 Hz - 200 Hz	----	FLAT, 6, 12, 18, 24 dB/oct.	0 至 -12 dB
中頻範圍揚聲器	20 Hz - 200 Hz	20 Hz - 20 kHz	FLAT, 6, 12, 18, 24 dB/oct.	FLAT, 6, 12, 18, 24 dB/oct.	0 至 -12 dB
高頻範圍揚聲器	1 kHz - 20 kHz, (20 Hz ~ 20 kHz)*	----	FLAT* 6, 12, 18, 24 dB/oct.	----	0 至 -12 dB

** 僅當在“設定高頻範圍揚聲器的響應斜率（TW SETUP）”（第 23 頁）中選擇 USER'S 時。*



（不同於實際顯示）



（不同於實際顯示）

- *HPF（高通濾波器）：截止較低的頻率，允許較高的頻率通過。*
- *LPF（低通濾波器）：截止較高的頻率，允許較低的頻率通過。*
- *斜率：電平隨著一個八度音階的頻率更改而改變（以 dB 爲單位）。*
- *斜率値越高，斜面越陡。*
- *將斜率調節至 FLAT，繞過 HP 或 LP 濾波器。*
- *HPF 未開啓或設定爲低頻時，請勿使用高音揚聲器，因爲低頻內容可能會造成揚聲器的損壞。*
- *您無法將分頻器的頻率調節至高於 HPF 或低於 LPF。*
- *調節必須根據所連接揚聲器建議的分頻器頻率來進行。確定揚聲器建議的分頻器頻率。將頻率調節至建議以外的範圍可能會造成揚聲器的損壞。*
  關於 Alpine 揚聲器建議的分頻器頻率，請參閱各自的用戶手冊。因爲使用建議以外的分頻器頻率而造成揚聲器損壞或故障，本公司恕不負責。

關於 IMPRINT

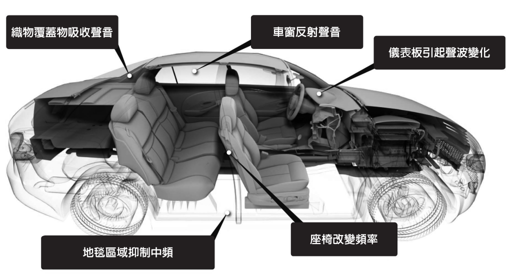
Alpine 引進 IMPRINT - 能徹底解決會降低音質車內噪音問題的全球第一技術，讓我們能體驗歌手的原創音樂。

夢想與現實

所有美妙的音樂，皆起源於藝術家的夢想。經過無數小時的排練、錄製和混音，這種夢想得以呈現，供我們透過光碟、收音機，以及其他媒體聆聽。但是，我們聽到的是藝術家的原創嗎？實際上，我們幾乎不曾精確地欣賞到藝術家的原創。特別是當我們在車內聆聽時。

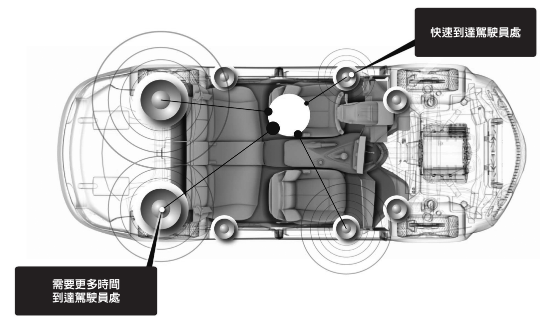
車內是最糟糕的聆聽空間

汽車內部充滿會阻擾並劣化音質的零件。例如：車窗會放大並反射高頻。座椅和儀表板蓋會改變某些頻率。地毯會吸收並抑制中頻。圖形式和參數式 EQ 只是這些問題的部分解決方法。另外，各揚聲器與聆聽者之間的距離並不相等，造成不平衡、不集中的音域。時間校正有助於解決此問題，但僅限於一個聆聽位置。



引進 IMPRINT

這些音響問題過於嚴重，以致於沒有任何校正系統能夠克服。直到現在，由於引進 IMPRINT，Alpine 提供的硬體 / 軟體組合不但能解決這些問題，事實上，它還能改善音域、音調平衡和清晰度並在幾分鐘內自動完成！

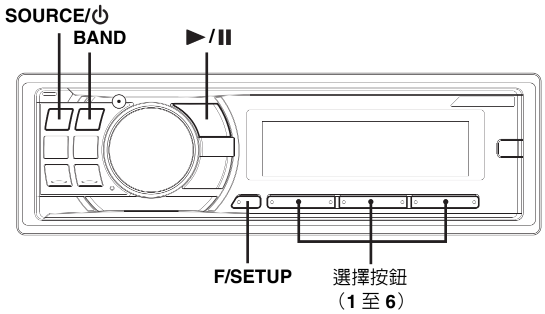


為何 IMPRINT 與衆不同

基於五項理由，使用 MultEQ 的 IMPRINT 比其他均衡系統更優秀。

- 它是唯一能完整測量聆聽區域、從每個聆聽位置擷取時域資訊，以及利用一種專利方法處理時域資訊使其可代表所有座椅位置的系統。這能給予每個座位的聽眾最佳的聆聽體驗。
- 它能校正時間與頻率問題，改善音域，產生更柔和、更自然的聲音。
- 它使用動態頻率分配，將數百個校正點應用在聲音問題最大的區域。
- 它能爲低分頻器測量出最佳的混合點。
- 它能夠在幾分鐘內提供專業技師一般需要數天才能完成的汽車聲音調諧。

換碟機 （選購）



控制 CD 換碟機 （選購）

如果選購的 6 片或 12 片 CD 換碟機與 Ai-NET 相容，可連接至本機。將 CD 換碟機連接至本機的 Ai-NET 輸入，可用本機控制 CD 換碟機。
使用 KCA-400C（多台換碟機切換裝置）或者 KCA-410C（多功能連接端子），本機可控制多台換碟機。
有關選擇CD換碟機，請參閱第30頁的"多台換碟機選擇（選購）"。

- *僅當連接了CD 換碟機時，才可以操作本機的CD 換碟機控制器。*
- *可透過本機控制DVD 換碟機 （選購）和CD 換碟機 （選購）。*

1 按 **SOURCE/⏻** 啟動 **CHANGER** 模式。

- *訊號源指示視連接的訊號源而異。*
- *在換碟機模式下按BAND 切換光碟模式。*

2 按 **F/SETUP** 啟動光碟選擇模式。

Disc Select Mode (Disc No.1~6)	→	Disc Select Mode * (Disc No.7~12)	→
RPT/M.I.X. Mode	→	Disc Select Mode (Disc No.1~6)	

3 按光碟**選擇按鈕** （**1** 至 **6**）對應載入 **CD** 換碟機的光碟。
所選的光碟編號出現在畫面上並且開始播放 CD/MP3。

- *選擇想要的光碟後，您可以利用與操作本機 CD 播放機相同的方法進行操作。詳情請參閱 CD/MP3/WMA/AAC 章節。*

* *當連接了12 片CD 換碟機時。*

使用 CD 換碟機 （選購）播放 MP3 檔案

如果您連接了與 MP3 相容的換碟機，可以在本機上播放包含 MP3 檔案的 CD-ROM、CD-R、以及 CD-RW。

1 按 **SOURCE/⏻** 切換到 **MP3** 換碟機模式。

2 按任一光碟**選擇按鍵**（**1** 至 **6**），對應載入 **CD** 換碟機的光碟。

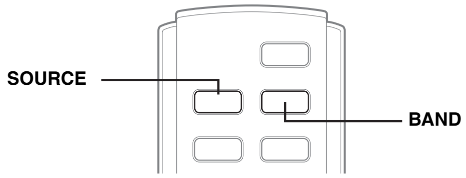
3 若要暫停播放，按**▶/II**。
再次按**▶/II** 將恢復播放。

- *本機可以播放包含音訊資料和MP3 資料的光碟。*
- *關於如何利用與MP3 相容的CD 換碟機操作MP3，請參閱第8 至11 頁上的 "CD/MP3/WMA/AAC"。*

多台換碟機選擇 （選購）

Alpine 的 Ai-NET 系統最多可支援 6 台 CD 換碟機。當操作兩台或更多台換碟機時，必須使用 KCA-400C （多台換碟機切換裝置）。如果您使用 1 部切換裝置，最多可以連接 4 台 CD 換碟機。如果您使用 2 部切換裝置，最多可以連接 6 台 CD 換碟機。使用 KCA-410C（多功能連接端子）時，您可以連接兩台換碟機與兩個外接輸出（AUX）。

1 按本機上的 **SOURCE/⏻** 啟動 **CD** 換碟機模式。
或者，按遙控器 （RUE-4202）上的 SOURCE 啟動 CD 換碟機模式。



2 在本機或**RUE-4202**上按**BAND**啟動**CD**換碟機選擇模式。
CD 換碟機選擇模式可維持幾秒鐘。

3 按 **BAND** 直至想要的 **CD** 換碟機指示出現在畫面上。
或者，按遙控器上的 BAND 直至想要的換碟機指示出現在畫面上。

- *如果沒有連接選擇的CD 換碟機，畫面會顯示 "NO CHANGER-（No.）"。*
- *若要操作選擇的換碟機，請參閱"CD/MP3/WMA/AAC"（第8 至11 頁）。*
- *有關使用KCA-410C 時的外接輸入 （AUX）詳細資訊，請參閱第17 頁的 "設定AUX 模式 （V-Link）"。*

資訊

出現問題時

如果您遇到問題，請關閉電源，然後再打開。如果機器仍舊無法正常工作，請查看下列清單中的項目。如果機器出現故障，本手冊將幫助您解決問題。否則，請確認您的系統連接正確或諮詢您的Alpine 授權經銷商。

基本問題

無法使用功能或無畫面顯示。
- 汽車的點火開關關閉。
  - 如果按說明連接，本機將不會在汽車點火開關關閉的情況下運行。
- 電源線 （紅）和電瓶線 （黃）連接不正確。
  - 檢查電源線和電瓶線的連接。
- 保險絲燒壞。
  - 檢查機器的保險絲，如果需要，更換合適規格的保險絲。
- 由於干擾噪音等造成的內部微電腦故障。
  - 用原子筆或其他帶尖頭的物體按 RESET 開關。

無線電

無法接收電台。
- 無天線或電纜連接斷開。
  - 確保天線已正確連接；必要時更換天線或電纜。

無法在搜尋模式中調諧電台。
- 您處在訊號較弱的地區。
  - 確保調諧器處在 DX 模式中。
- 如果您處在主要訊號區，天線可能沒有正確接地和連接。
  - 檢查天線連接；請確保天線在安裝位置正確接地。
- 天線可能長度不合適。
  - 確保天線完全延伸；如果斷裂，請更換新的天線。

廣播出現噪音。
- 天線可能長度不合適。
  - 確保天線完全延伸；如果斷裂，請更換新的天線。
- 天線接地不良。
  - 確保在安裝位置將天線正確接地。

CD

CD 播放機 **/** 換碟機無法正確工作。
- CD 的工作溫度超出額定範圍 +50°C。
  - 請使汽車的內部 （或後備廂）冷卻。

CD 播放聲音顫抖。
- 濕氣凝結在 CD 模塊中。
  - 請留出充分的時間讓冷凝液體蒸發 （約 1 小時）。

無法插入 **CD**。
- CD 播放機中已有一張 CD。
  - 彈出 CD，然後將其取出。
- 未正確插入 CD。
  - 確保依照 CD 播放機操作章節中的說明插入 CD。

無法對 **CD** 進行快進或快退。
- CD 已損壞。
  - 彈出並丟棄 CD，在機器中使用損壞的 CD 可能會造成內部機構的損壞。

CD 播放聲音由於振動而跳音。
- 機器安裝不正確。
  - 將機器重新牢固安裝。
- 光碟很髒。
  - 清潔光碟。
- 光碟上有刮痕。
  - 更換光碟。
- 雷射頭物鏡已髒。
  - 請勿使用市售的雷射物鏡清潔光碟。請諮詢附近的 Alpine 經銷商。

CD 播放聲音在無振動的情況下出現跳音。
- 光碟很髒或有刮痕。
  - 清潔光碟；必須更換損壞的光碟。

出錯顯示 （僅限內建 **CD** 播放機）。
- 機械錯誤。
  - 按⏏。出錯顯示消失後，再次插入光碟。如果上述解決措施還是不能解決問題，請諮詢附近的 Alpine 經銷商。

無法進行 **CD-R/CD-RW** 播放。
- 尚未進行完成 （最終化）處理。
  - 執行最終化處理，然後嘗試再次播放。

MP3/WMA/AAC

無法播放 **MP3**、**WMA** 或 **AAC**。
- 出現寫入錯誤。CD 格式不相容。
  - 確保 CD 以支援的格式寫入。請參閱 “關於 MP3/WMA/AAC”（第 10-11 頁），然後用本機支援的格式重新寫入。

音訊

聲音未從揚聲器輸出。
- 機器無內部放大器的輸出訊號。
  - 將 POWER IC 切換至 “ON”（第 16 頁）。

iPod

iPod 不播放或沒有聲音輸出。
- iPod 未被識別。
  - 重設本機和 iPod。請參閱“初始化系統啓動”（第 6 頁）。若要重設 iPod，請參考 iPod 的用戶手冊。

CD 播放機的顯示

NO DISC

- 未插入 CD。
  - 插入 CD。
- 雖然插入了光碟，螢幕上顯示 "NO DISC"，機器未開始播放或彈出光碟。
  - 請按照以下順序取出光碟：
    再次按住⏏按鈕至少 2 秒鐘。
    如果仍然無法彈出光碟，請諮詢您的 Alpine 經銷商。

ERROR

- 機械錯誤。
  1) 按⏏按鈕，彈出 CD。
     如果未能彈出，請諮詢您的 Alpine 經銷商。
  2) 彈出光碟後如果仍舊出現出錯顯示，請再次按⏏按鈕。
     如果按⏏按鈕數次後出錯顯示仍未消失，請諮詢您的 Alpine 經銷商。

- *當顯示 "ERROR" 時：*
  如果按⏏無法彈出光碟，請按 RESET 開關（參閱第 6 頁），然後再按一次⏏。
  如果仍然無法彈出光碟，請諮詢您的 Alpine 經銷商。

PROTECT

- 播放版權保護的 WMA 檔案。
  - 您只可以播放未經版權保護的檔案。

UNSUPPORTED

- 使用了本機不支援的取樣頻率 / 位元率。
  - 使用本機支援的取樣頻率 / 位元率。

CD 換碟機的指示

HIGH-TEMP

- 保護電路由於高溫而啓動。
  - 當溫度返回到正常工作範圍中時，顯示將消失。

ERROR-01

- CD 換碟機故障。
  - 請諮詢 Alpine 經銷商。按光碟匣彈出按鈕，拉出光碟匣。檢查指示。再次置入光碟匣。
    如果無法拉出光碟匣，請諮詢您的 Alpine 經銷商。
- 無法彈出光碟匣。
  - 按光碟匣彈出按鈕。如果無法彈出光碟匣，請諮詢您的 Alpine 經銷商。

ERROR-02

- 光碟留在 CD 換碟機內。
  - 按彈出按鈕啓動彈出功能。當 CD 換碟機完成彈出功能時，將空白 CD 光碟匣置入 CD 換碟機，接收留在 CD 換碟機內的光碟。

NO MAGAZINE

- 無光碟匣載入 CD 換碟機。
  - 置入光碟匣。

NO DISC

- 無指示光碟。
  - 選擇其他光碟。

USB 記憶裝置的指示

ERROR

- 通信錯誤。
  - 關閉點火開關，然後再次設定爲 ON。

CURRENT ERROR

- 異常電流通過 USB 連接器設備。
  - 您可以透過切換音源、關閉本機電源或將 ACC 設至 OFF 位置解決此問題。

DEVICE ERROR

- 連接了本機不支援的 USB 裝置。
  - 連接一個由本機支援的 USB 裝置。

NO USB UNIT

- 未連接 USB 記憶裝置。
  - 確定是否正確連接 USB 記憶裝置，且電纜是否過度彎曲。

NO FILE

- USB 記憶裝置中並未儲存任何歌曲（檔案）。
  - 在儲存歌曲（檔案）後連接 USB 記憶裝置。

UNSUPPORTED

- 使用了本機不支援的取樣頻率 / 位元率。
  - 使用本機支援的取樣頻率 / 位元率。

PROTECT

- 播放版權保護的 WMA 檔案。
  - 您只可以播放未經版權保護的檔案。

iPod 模式中的指示

NO USB UNIT

- 未連接 iPhone/iPod。
  - 確保正確連接 iPhone/iPod（參閱第 37 頁上的“連接”）。請勿將電纜彎折過度。

NO SONG

- iPhone/iPod 中無歌曲。
  - 將歌曲下載至 iPhone/iPod，然後與本機相連。

ERROR-01

- 通信錯誤。
  - 關閉點火開關，然後再次設定為 ON。
  - 重設 iPod。
  - 使用 iPhone/iPod 電纜重新連接 iPhone/iPod 和本機，檢查螢幕。

ERROR-02

- 故障原因在於 iPhone/iPod 軟體版本與本機不相容。
  - 更新 iPhone/iPod 軟體，使其與本機相容。

ERROR-03

- 未驗證 iPhone/iPod。
  - 更換另一個 iPhone/iPod。

CURRENT ERROR

- 異常電流通過 USB 連接器設備。
  - 您可以透過切換音源、關閉本機電源或將 ACC 設至 OFF 位置解決此問題。

DEVICE ERROR

- 連接了本機不支援的 USB 設備。
  - 連接本機支援的 USB 設備。

所有模式的顯示

DC ERROR

- 因汽車底盤上的揚聲器電線短路而發生的故障。
  - 請正確配線，然後將 POWER IC 設定為 ON（第 16 頁）。
  - 如果以上解決措施無效，請咨詢附近的經銷商。

規格

FM 調諧器部分

調諧範圍	87.5-108.0 MHz
單聲道可用靈敏度	9.3 dBf （0.8 µV/75 歐姆）
50 dB 靜噪靈敏度	13.5 dBf （1.3 µV/75 歐姆）
選擇度	80 dB
信噪比	65 dB
立體聲分離度	35 dB
俘獲比	2.0 dB

AM 調諧器部分

調諧範圍	531-1602 kHz
靈敏度 （IEC 標準）	22.5 µV/27 dB

CD 播放機部分

頻率響應	5-20000 Hz （± 1 dB）
抖晃率 （% WRMS）	在可測限制以下
總諧波失真	0.008%（在 1 kHz 情況下）
動態範圍	95 dB （在 1 kHz 情況下）
信噪比	105 dB
頻道分離度	85 dB （在 1 kHz 情況下）

USB 部分

USB 要求	USB 1.1/2.0
最大功率消耗	500mA
USB 等級	大量儲存
檔案系統	FAT 12/16/32
MP3 解碼	MPEG-1/2 AUDIO Layer-3
WMA 解碼	Windows Media™ Audio
AAC 解碼	AAC-LC 格式“.m4a”檔案
聲道數	2 聲道 （立體聲）
頻率響應 *	5-20000 Hz （± 1 dB）
總諧波失真	0.008%（在 1 kHz 情況下）
動態範圍	95 dB （在 1 kHz 情況下）
訊號雜訊比	105 dB
頻道分離度	85 dB （在 1 kHz 情況下）

* *視編碼軟體 / 位元率而定，頻率響應可能不同。*

拾音

波長	795 nm
雷射功率	CLASS I

一般部分

電源要求	14.4 V DC （可允許 11-16 V）
最大功率輸出	50 W × 4
最大前置輸出電壓	2 V/10 千歐
低音	100 Hz 時 ±14 dB
高音	10 kHz 時 ±14 dB
重量	1.5 kg

底座尺寸

寬度	178 mm
高度	50 mm
深度	160 mm

梁架尺寸

寬度	170 mm
高度	46 mm
深度	24 mm

- *由於產品不斷改進，規. 格和設計若有變更，恕不另行通知。*

安裝和連接

在安裝或連接本機之前，請通讀以下說明及手冊的第 **3** 至 **5** 頁，以確保正確使用。

⚠警告

進行正確的連接。
連接不妥當，可能導致火災或損壞產品。

僅用於 12 伏負極 （－）接地的汽車。
（如果您無法確定，請向您的代理商確認。）否則可能會造成火災或電擊。

在進行配線之前，請拆下連接在電池負極端子上的電纜。
否則可能會因短路造成電擊或傷害。

不可切開電纜。
切勿剝除連接到其它設備上的電源線的絕緣層。否則將因超過電線的容許負荷量而導致火災或觸電。

鑽孔時注意別損傷配管或電線。
當在底盤上鑽安裝孔時，須特別注意別碰傷管道燃油線路，油箱或電線。否則，可能導致火災。

不可利用煞車或轉向系統上的螺栓或螺母連接地線。
煞車或轉向系統 （或任何其它安全有關系統），或油箱上用的螺栓或螺母，絕對不能利用於安裝或接地線。否則，將導致汽車控制困難或發生火災等。

不要讓兒童觸及像電池這樣的小物體。
吞下小物體會引起嚴重的傷害。如果誤吞，請立即請醫生診治。

不要安裝在妨礙汽車駕駛的位置，例如方向盤或變速器（附近）。
這樣做也許會妨礙前方的視野或影響駕駛等，並引起嚴重的事故。

別讓電纜糾纏上周圍物體。
須按說明書配置電線電纜以防駕駛中發生阻撓。電纜或電線任由糾纏或懸垂於方向盤，變速桿，剎車踏板等處是很危險的。

⚠注意

請專業人員進行配線和安裝。
本裝置的配線和安裝需要專門的技術和經驗。爲了確保安全，請與您購買的經銷商聯絡以便安全地進行安裝。

使用專用配件並進行安全安裝。
注意限使用指定的附件。使用其它設計零件，可能損壞本機內部，或不能牢固地安裝到位。導致零件鬆脫發生危險或使機器故障。

安排配線使不至於被銳利金屬邊鉗夾傷。
電纜、電線須適當迂回避開移動性部件 （例如座位滑動軌道）或銳利金屬邊緣以防鉗傷電線。電線須穿過金屬板孔時，請用橡皮墊圈套住以防電線的絕緣層被金屬孔邊緣割傷。

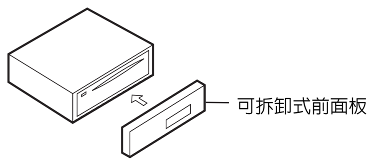
不要安裝在極潮濕或多塵埃的位置。
避免把機器安裝在極潮濕、多塵的位置。濕氣或塵埃侵入機器裡，可能導致機器故障。

注意事項

- 在安裝 CDA-105E 之前，請務必將電纜從電瓶的負極 （－）上斷開。這樣做可以在出現短路時降低對本機造成損壞的幾率。
- 請務必根據圖示連接彩色編碼的電線。連接不正確可能會造成本機故障或汽車電氣系統損壞。
- 當與汽車電氣系統相連時，請注意出廠安裝的部件（如板載電腦）。請勿搭接這些電線來爲本機供電。當將 CDA-105E 連接至保險絲盒時，請確保 CDA-105E 需使用的電路的保險絲的安培值合適。若不合適，可能會造成本機和 / 或汽車的損壞。若有疑問，請諮詢您的 Alpine 授權經銷商。
- CDA-105E使用凹入式RCA型插孔來連接其他帶RCA連接器的設備 （如放大器）。您可能需要轉接器來連接其他設備。如果需要轉接器，請聯絡您的 Alpine 授權經銷商。
- 請務必將揚聲器 （－）電線連接至揚聲器 （－）端子。切勿將左右聲道揚聲器電纜相互連接，或連接至車身。

重要事項 請在橫線上塡上本機的系列號，並進行永久保存。系列號或刻在機身上的系列號位於機器的底部。	系列號：______ 安裝日期：______ 安裝技術人員：______ 購買地：:______

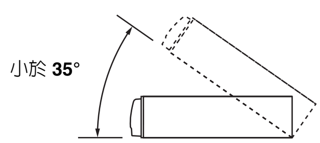
安裝



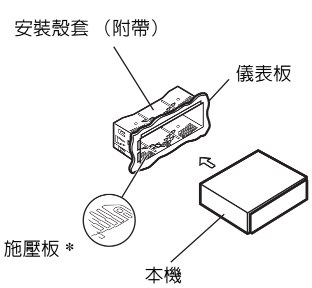
注意

當您將本機安裝到車內時，請勿拆下可拆卸式前面板。如果在安裝過程中可拆卸式前面板被拆下，您可能按得過重使金屬板偏出固定位置。

- *必須將主機安裝在水平面 35 度的範圍內，從後往前。*



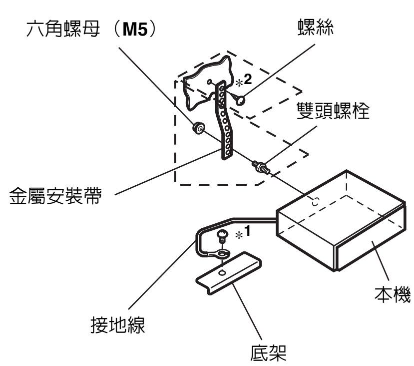
1



* *如果儀表板內安裝的安裝殼套鬆動，施壓板可以稍微彎折以固定。*

從主機上拆卸安裝殼套 （請參閱第 **35** 頁的 "拆卸"）。

2



用金屬安裝帶（未附帶）加固主機。用已安裝到汽車底盤上的螺絲 （*1）將本機的接地線固定到清潔的金屬觸點上。

- 對於標有 "*2" 的螺絲，請在選定的安裝位置使用合適的螺絲。

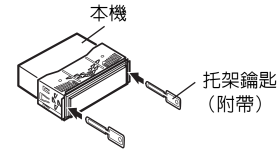
將放大器或均衡器的各輸入線連接至來自**CDA-105E**左後部的相應輸出線。根據連接一章中所述的詳細說明，連接 **CDA-105E** 的所有其他導線。

3

將 **CDA-105E** 滑入儀表板直到出現喀嗒聲。這樣可確保正確鎖緊本機，使機器不會從儀表板意外脫出。

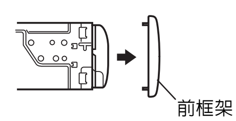
<u>拆卸</u>

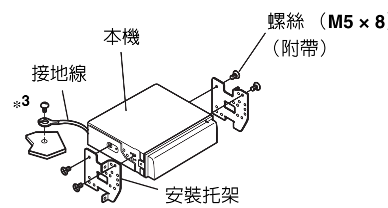
1. 拆下可拆卸式前面板。
2. 將托架鑰匙沿著兩邊的導向槽插入本機。現在可將本機從安裝殼套中拆下。



3. 將本機向外拉出，拉出時使其保持在解鎖狀態。

< 日本汽車 >

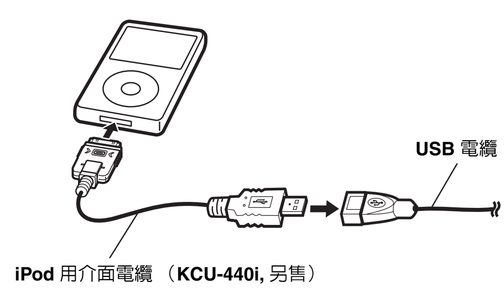




- *用已安裝到汽車底盤上的螺絲 （*3）將本機的接地線固定到清潔的金屬觸點上。*

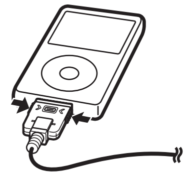
<u>iPhone/iPod 連接 （另售）</u>

用 iPod 用介面電纜（KCU-440i, 另售）將 USB 電纜連接至 iPhone/iPod。



移除 **iPhone/iPod**

從 iPod 用介面電纜 （KCU-440i, 另售）取下 iPhone/iPod。

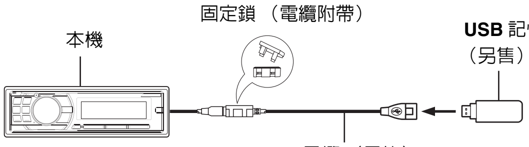


- *當本機更換爲 USB iPod 以外的訊號源後，取下 iPhone/iPod。如果在 USB iPod 模式時取下 iPhone/iPod 可能會造成資料損壞。*
- *如果未輸出聲音，或是連接了 iPhone/iPod 但無法辨識 iPhone/iPod，取下 iPhone/iPod，然後重新連接，或是重啓 iPod。*
- *請勿將 iPhone/iPod 長時間遺留在車內。熱源和濕氣可能會損壞 iPhone/iPod 以使您無法再次播放。*

USB 記憶裝置連線方式 （另售）

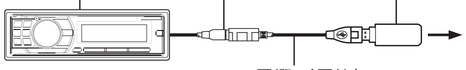
連接 **USB** 記憶裝置

將 USB 記憶裝置與 USB 電纜連接。



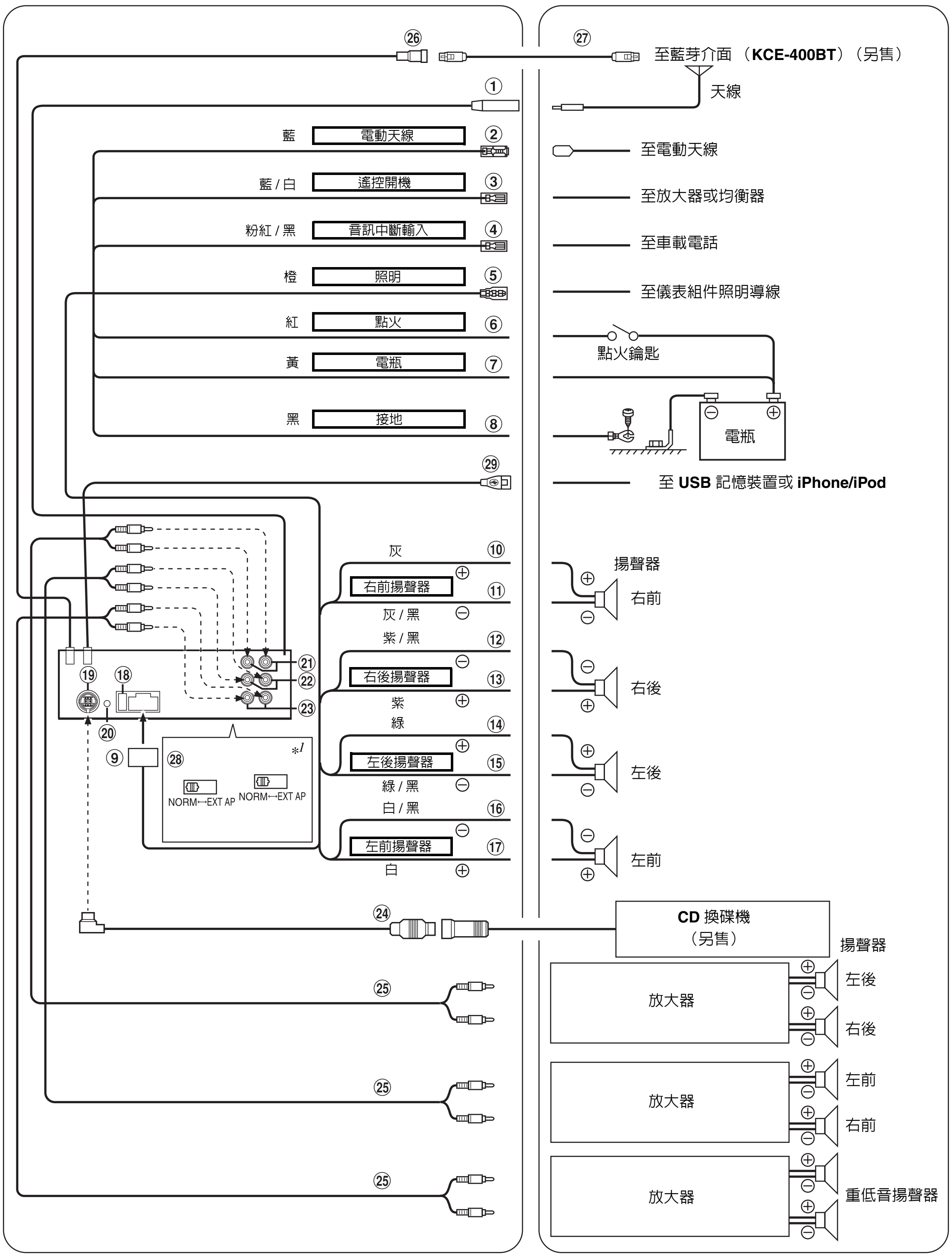
取下 **USB** 記憶裝置

平穩拉出連接在 USB 電纜的 USB 記憶裝置。



- *取下 USB 記憶裝置時，請徑直拉出。*
- *如果即使在連接 USB 記憶裝置的情況下仍未輸出聲音或未識別 USB 記憶裝置，請取下 USB 記憶裝置，再次連接。*
- *改爲 USB 記憶裝置模式以外的訊號源，然後取下 USB 記憶裝置。如果在 USB 記憶裝置模式下取下 USB 記憶裝置，可能會損壞資料。*
- *將 USB 電纜遠離其他電纜。*

連接



*1 系統開關位於本機底部。

① 天線插座

② 電動天線導線 （藍）
如果適用的話，將此導線連接至電動天線的 +B 端子。

- *此導線只可用於控制汽車的電動天線。請勿用此導線打開放大器或訊號處理器等設備。*

③ 遙控開機導線 （藍 / 白）
將此導線連接至放大器或訊號處理器的遙控開機導線。連接 IMPRINT 音訊處理器 PXA-H100 （另售）時，請使用 PXA-H100 的遙控開機導線來連接至放大器或訊號處理器。詳情請參閱 PXA-H100 的用戶手冊。

④ 音訊中斷輸入線 （粉紅 / 黑）
將此導線連接至移動電話的音訊介面輸出，可以在接聽電話時提供接地短路。

⑤ 照明導線 （橙）
此導線可連接至汽車的儀表組件照明導線。當開啓汽車的燈光時，這將讓 CDA-105E 的背光變暗。

⑥ 切換電源線 （點火）（紅）
當點火開關打開或在附加位置時，將此導線連接至汽車保險絲盒的斷開端子或其他僅提供 （＋） 12V 的未使用的電源。

⑦ 電瓶導線 （黃）
將此導線連接至汽車電瓶的正極 （＋）端子。

⑧ 接地導線 （黑）
將此導線連接至汽車上的良好底盤接地上。務必連接至裸金屬，並使用提供的金屬螺絲牢牢固定。

⑨ 電源連接器

⑩ 右前 （＋）揚聲器輸出導線 （灰）

⑪ 右前 （－）揚聲器輸出導線 （灰 / 黑）

⑫ 右後 （－）揚聲器輸出導線 （紫 / 黑）

⑬ 右後 （＋）揚聲器輸出導線 （紫）

⑭ 左後 （＋）揚聲器輸出導線 （綠）

⑮ 左後 （－）揚聲器輸出導線 （綠 / 黑）

⑯ 左前 （－）揚聲器輸出導線 （白 / 黑）

⑰ 左前 （＋）揚聲器輸出導線 （白）

⑱ 保險絲座 （**10A**）

⑲ **Ai-NET** 連接器
將此連接至其他具有 Ai-NET 的裝置 （CD 換碟機、IMPRINT 音訊處理器、均衡器等）的輸出或輸入連接器。

- *不建議將 iPod (KCA-420i) 的介面轉接器與本產品一起使用。*
- *您可以將選購的 Ai-NET/RCA 介面電纜 （KCA-121B）連接到此部件上，輸入電視機 / 視訊的聲音。*
- *當連接 DHA-S690 時，確保將 "設定連接的主機 (MODEL SETUP)"設定爲 "CD CHG"。*

⑳ 操縱遙控介面連接器
至操縱遙控介面盒。

㉑ 後置輸出 / 輸入 **RCA** 連接器
可作爲後置輸出或輸入 RCA 連接器。
紅色的在右邊，白色的在左邊。

㉒ 前置輸出 / 輸入 **RCA** 連接器
可作爲前置輸出或輸入 RCA 連接器。
紅色的在右邊，白色的在左邊。

㉓ 重低音 **RCA** 連接器
紅色的在右邊，白色的在左邊。

㉔ **Ai-NET** 電纜 （**CD** 換碟機附帶）

㉕ **RCA** 延長電纜 （另售）

㉖ 藍芽 **I/F** 連接器
將此連接至選購的藍芽介面 (KCE-400BT)。
若要使用免持手機，需要選購的藍芽介面 (KCE-400BT) 連接。有關連接的詳細資訊，請參閱藍芽介面 (KCE-400BT) 的用戶手冊。您也可以使用擴展 AUX IN 的轉換電纜 （KCE-237B）（另售）來連接至外接裝置 （例如攜帶式播放器）。

* *請參閱 "設定 AUX+ SETUP 模式"（第 17 頁）。*

AUX+ ON : 連接外接裝置時。
AUX+ OFF : 當設定爲 OFF 時，無法選擇 AUX+ 音源。

㉗ **KCE-400BT** 連接電纜 （**KCE-400BT** 附帶）

㉘ 系統開關
使用 Ai-NET 連接處理器或分割器時，請將此兩個開關放在 EXT AP 位置。沒有裝置連接時，請將開關置於 NORM 位置。

- *請勿對這兩個開關進行不同的設定。*
- *在改變開關位置前，請務必將本機的電源關閉。*

㉙ **USB** 連接器
將此連接至 USB 記憶裝置或 iPhone/iPod。若要使用 iPhone/iPod，需要用 iPod 用介面電纜連接。

- *將 USB 電纜遠離其他電纜。*

為了防止外部噪音進入音訊系統。
- 本機的安裝以及導線的排布應在離開汽車線束至少 10 cm 的距離。
- 儘量使電瓶電源線遠離其他導線。
- 將接地線牢固連接至汽車底盤的裸金屬觸點 （如有必要，除去任何油漆、髒物或油脂）。
- 如果您要附加一個選購的噪音抑制器，連接時請儘量使其遠離本機。您的 Alpine 經銷商處備有各種類型的噪音抑制器，有關詳情請與其聯絡。
- 您的 Alpine 經銷商精通防止噪音的方法，詳情請諮詢您的經銷商。